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FILE COVERS 1907 - 19 Jun 2009 VOL 150 ISS 26
 FILE LAST UPDATED: 18 Jun 2009 (20090618/ED)
 REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2009
 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

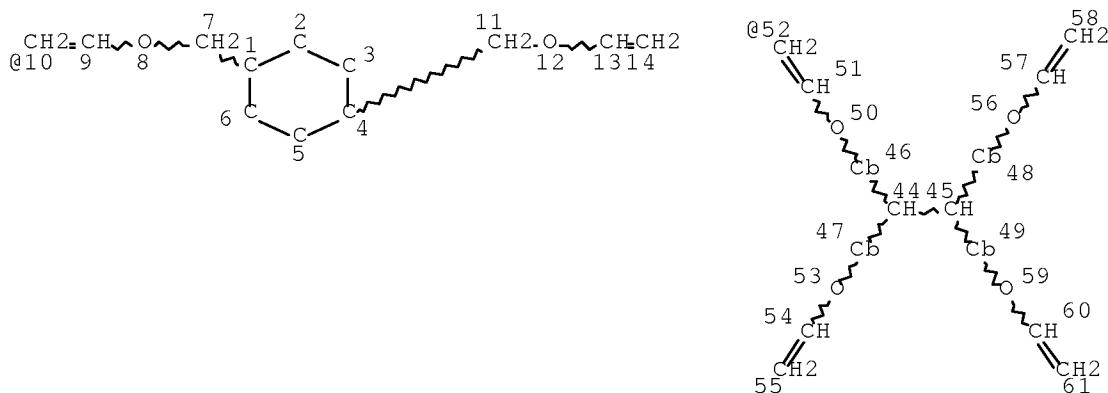
CAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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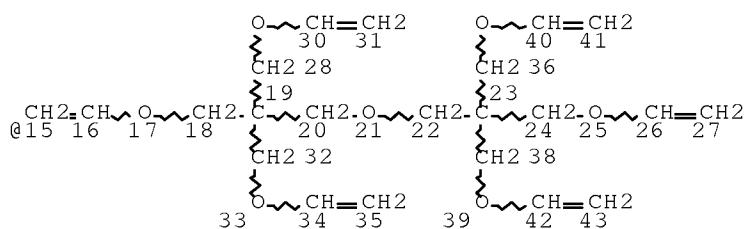
<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que 134
 L18 STR



G1 62



Page 2-A

VAR G1=10/52/15

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 62

STEREO ATTRIBUTES: NONE

L20 272 SEA FILE=REGISTRY SSS FUL L18

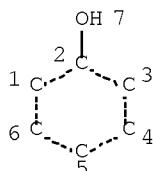
L24 325 SEA FILE=CAPLUS SPE=ON ABB=ON PLU=ON L20

L26 TRANSFER PLU=ON L24 1- RN : 2814 TERMS

L27 2814 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L26

L28 73 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L27 AND P/ELS

L29 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 1

NUMBER OF NODES IS 7

STEREO ATTRIBUTES: NONE

L31 196 SEA FILE=REGISTRY SUB=L27 SSS FUL L29

L32 21 SEA FILE=CAPLUS SPE=ON ABB=ON PLU=ON L20 AND L31 AND L28

L34 2 SEA FILE=CAPLUS SPE=ON ABB=ON PLU=ON L32 AND (?FIRE? OR
?FLAME?)

=> d 134 ibib abs hitind hitstr tot

THE ESTIMATED COST FOR THIS REQUEST IS 12.04 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L34 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:99568 CAPLUS Full-text
 DOCUMENT NUMBER: 142:157023
 TITLE: curable vinyl ether curing compositions containing polyvalent phenolic compounds for cured products with low dielectric constant
 INVENTOR(S): Saito, Seiichi
 PATENT ASSIGNEE(S): Asahi Denka Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 23 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005010098	A1	20050203	WO 2004-JP10095	20040715
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2005154448	A	20050616	JP 2003-278953	20030724
EP 1650259	A1	20060426	EP 2004-747561	20040715
R: DE, FR, GB				
US 20060178454	A1	20060810	US 2005-560815	20051215
KR 2006038951	A	20060504	KR 2005-724945	20051226
PRIORITY APPLN. INFO.:			JP 2003-278953	A 20030724
			WO 2004-JP10095	W 20040715

AB The composition, useful for laminates, especially, buildup laminates, comprises a polyvalent vinyl ether compound and a polyvalent phenolic compound. Thus, a composition comprised 1,4-cyclohexanedimethyl divinyl ether 100, PR 53194 (polyvalent phenolic compound) 62.1, Milex XLC-LL (polyvalent phenolic compound) 62.1, Aerosil 200 (silica) 12.4, SO-E 5 (spherical silica) 37.3, [1,3-phenylenebis(methylene)]bis(phosphoramicidic acid) tetra-Ph ester 24.3, ethylene glycol Bu ether acetate 100 and 2-ethyl-4-methylimidazole 7.1 parts was mixed and cured, showing glass transition temperature 125°, specific dielec. constant (2GHz) 2.9 and absorption 0.25%.

IC ICM C08L065-00

ICS C08G059-00; C08K005-5399

CC 37-6 (Plastics Manufacture and Processing)

Section cross-reference(s): 38, 76

IT Fillers

Fire-resistant materials

Fireproofing agents

(curable vinyl ether curing compns. containing polyvalent phenolic compds. for cured products with low dielec. constant)

IT 830351-48-9P 830351-49-0P 830351-51-4P

830351-52-5P 830351-54-7P

RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM

(Technical or engineered material use); PREP (Preparation); USES (Uses)

(curable vinyl ether curing compns. containing polyvalent phenolic compds. for cured products with low dielec. constant)

IT 382596-16-9

RL: MOA (Modifier or additive use); USES (Uses)
 (fireproofing agent; curable vinyl ether curing compns.
 containing polyvalent phenolic compds. for cured products with low dielec.
 constant)

IT 830351-48-9P 830351-49-0P 830351-51-4P
 830351-52-5P 830351-54-7P

RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM
 (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (curable vinyl ether curing compns. containing polyvalent phenolic compds.
 for cured products with low dielec. constant)

RN 830351-48-9 CAPLUS

CN Phenol, polymer with 1,4-bis(methoxymethyl)benzene,
 1,1'-(1-methylethylidene)bis[4-[2-(ethoxyloxy)ethoxy]benzene] and Sumilite
 PR 53194 (9CI) (CA INDEX NAME)

CM 1

CRN 119792-27-7

CMF Unspecified

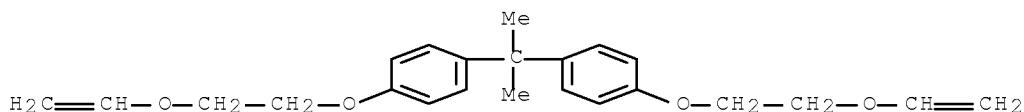
CCI PMS, MAN

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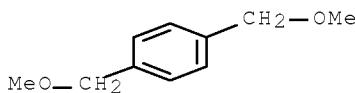
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CM 3

CRN 6770-38-3

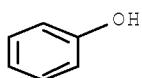
CMF C10 H14 O2



CM 4

CRN 108-95-2

CMF C6 H6 O



RN 830351-49-0 CAPLUS

CN Phenol, polymer with 1,4-bis[(ethenyloxy)methyl]cyclohexane,
1,4-bis(methoxymethyl)benzene and Sumilite PR 53194 (9CI) (CA INDEX NAME)

CM 1

CRN 119792-27-7

CMF Unspecified

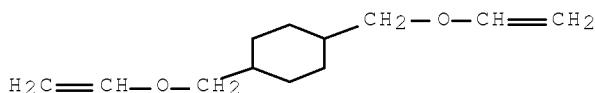
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

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CRN 17351-75-6

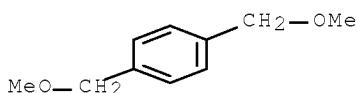
CMF C12 H20 O2



CM 3

CRN 6770-38-3

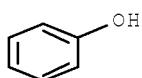
CMF C10 H14 O2



CM 4

CRN 108-95-2

CMF C6 H6 O



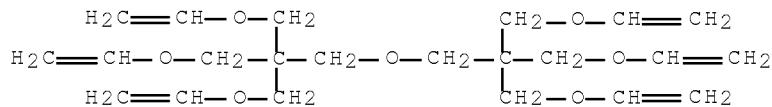
RN 830351-51-4 CAPLUS

CN Phenol, polymer with 1,4-bis(methoxymethyl)benzene and 1,1'-oxybis[3-(ethenylloxy)-2,2-bis[(ethenylloxy)methyl]propane] (9CI) (CA INDEX NAME)

CM 1

CRN 830351-50-3

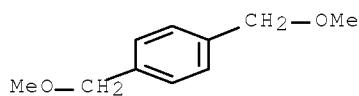
CMF C22 H34 O7



CM 2

CRN 6770-38-3

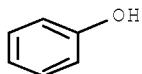
CMF C10 H14 O2



CM 3

CRN 108-95-2

CMF C6 H6 O



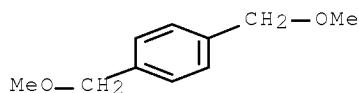
RN 830351-52-5 CAPLUS

CN Formaldehyde, polymer with 1,4-bis(methoxymethyl)benzene, (ethenylloxy)benzene and phenol (9CI) (CA INDEX NAME)

CM 1

CRN 6770-38-3

CMF C10 H14 O2



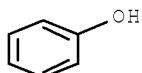
CM 2

CRN 766-94-9
 CMF C8 H8 O



CM 3

CRN 108-95-2
 CMF C6 H6 O



CM 4

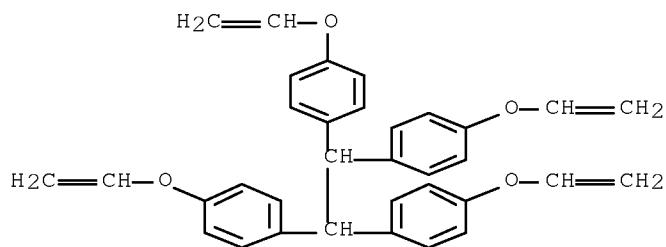
CRN 50-00-0
 CMF C H2 O



RN 830351-54-7 CAPLUS
 CN Benzene, 1,1',1'',1'''-(1,2-ethanediylidene)tetrakis[4-(ethenyloxy)-, polymer with Sumilite PR 53194 (9CI) (CA INDEX NAME)

CM 1

CRN 830351-53-6
 CMF C34 H30 O4



CM 2

CRN 119792-27-7
 CMF Unspecified
 CCI PMS, MAN

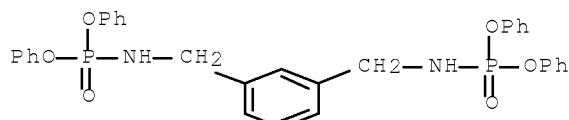
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 382596-16-9

RL: MOA (Modifier or additive use); USES (Uses)
 (fireproofing agent; curable vinyl ether curing compns.
 containing polyvalent phenolic compds. for cured products with low dielec.
 constant)

RN 382596-16-9 CAPLUS

CN Phosphoramicidic acid, N,N'-[1,3-phenylenebis(methylene)]bis-,
 P,P',P'-tetraphenyl ester (CA INDEX NAME)



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2003:261917 CAPLUS Full-text
 DOCUMENT NUMBER: 138:288093
 TITLE: Phosphorus-containing carboxylic acid derivatives,
 process for preparation thereof, and flame retardants
 INVENTOR(S): Fujimura, Toshinobu; Waki, Kazunori; Sato, Koji;
 Mibae, Shiro
 PATENT ASSIGNEE(S): NOF Corporation, Japan
 SOURCE: PCT Int. Appl., 93 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2003027208	A1	20030403	WO 2002-JP9675	20020920

W: CN, JP, KR, SG, US
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT,
 LU, MC, NL, PT, SE, SK, TR

EP 1433832 A1 20040630 EP 2002-767991 20020920
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, FI, CY, TR, BG, CZ, EE, SK
 CN 1589308 A 20050302 CN 2002-822904 20020920
 TW 243198 B 20051111 TW 2002-91121548 20020920
 US 20040249028 A1 20041209 US 2004-488858 20040308
 US 7186784 B2 20070306

PRIORITY APPLN. INFO.: JP 2001-287580 A 20010920
 JP 2001-382317 A 20011214
 JP 2002-132302 A 20020508
 WO 2002-JP9675 W 20020920

AB The present invention relates to phosphorus-containing carboxylic acid derivs. bearing a group CO₂CR₁(CHR₂R₃)Y, a process for the preparation thereof, and flame retardants containing the derivs. as the active ingredient, wherein R₁, R₂, R₃ = H or C₁-18 hydrocarbon and Y = O or S. The invention provides phosphorus-containing carboxylic acid derivs. and flame retardants which are excellent in solubility in organic solvents, compatibility with various synthetic resins, stability, and flame retardancy. Thus, 30.1 parts Sanko-HCA itaconic acid and 19.9 parts itaconic acid were reacted in 30.0 parts methoxypropyl acetate at 122° for 2 h to give 48.4 g phosphorus-containing carboxylic acid with m.p. 196-198° and acid equivalent 172 g/mol, 53.4 parts of which was mixed with Pr vinyl ether 31.9, 2-butanone 14.7, and AP 8 phosphorus catalyst 0.05 parts and stirred at 85° for 3 h to give a phosphorus-containing carboxylic acid derivative with acid equivalent 8.32 g/mol, showing good solubility in acetone, Me iso-Bu ketone, acrylonitrile, methoxypropyl acetate, toluene, and Epikote 828 bisphenol epoxy resin, and storage stability. A composition comprising the resulting phosphorus-containing carboxylic acid derivative 5.54, YDPN 638 phenolic novolak epoxy resin 4.22, and Nofcure LC 1 latent catalyst 0.21 parts was applied on a tin plate and cured at 200° for 1 h to give a cured film with phosphorus content 4.1%, good appearance, solvent resistance, flame retardance (UL 94) V-0, and yellowing and heat resistance.

IC ICM C09K021-12

ICS C07F009-6574; C07F009-38; C07F009-40; C08L063-00; C08K005-49

CC 35-2 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 37, 38, 42, 73

ST phosphorus contg carboxylic acid deriv prepn flame retardance

IT Phenolic resins, uses

RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(epoxy, novolak, cured; preparation of phosphorus-containing carboxylic acid

derivs. for flame retardants for resin compns.)

IT Coating materials

(fire-resistant; preparation of phosphorus-containing carboxylic acid derivs. for flame retardants for resin compns. for)

IT Epoxy resins, uses

RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(phenolic, novolak, cured; preparation of phosphorus-containing carboxylic acid

derivs. for flame retardants for resin compns.)

IT Polyketones

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)

(polyether-, flame retardants; preparation of phosphorus-containing

carboxylic acid derivs. for ~~flame~~ retardants for resin compns. for)

IT Polyethers, preparation
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
 (polyketone-, ~~flame~~ retardants; preparation of phosphorus-containing carboxylic acid derivs. for ~~flame~~ retardants for resin compns. for)

IT Fire-resistant materials
 Fireproofing agents
 Laminated plastic films
 (preparation of phosphorus-containing carboxylic acid derivs. for ~~flame~~ retardants for resin compns.)

IT 25068-38-6, Epikote 828 97666-48-3, YDCN 701 105478-35-1, Epo Toho YDPN 638 244772-00-7, EHPE 3150
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
 (cured; preparation of phosphorus-containing carboxylic acid derivs. for ~~flame~~ retardants for resin compns.)

IT 503623-54-9P 503623-55-0P 503623-56-1P
 503623-57-2P 503623-58-3P 503623-60-7P
 503623-62-9P 503835-09-4P 503835-10-7P
 503835-20-9P
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
 (~~flame~~ retardant; preparation of phosphorus-containing carboxylic acid derivs. for ~~flame~~ retardants)

IT 7440-50-8, 3EC III, uses
 RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
 (foil, laminate with epoxy resin containing ~~flame~~ retardant; preparation of phosphorus-containing carboxylic acid derivs. for ~~flame~~ retardants for resin compns.)

IT 503623-61-8P
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
 (intermediate; preparation of phosphorus-containing carboxylic acid derivs. for ~~flame~~ retardants)

for 63562-33-4P 503623-59-4P
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate; preparation of phosphorus-containing carboxylic acid derivs. for ~~flame~~ retardants)

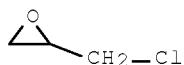
IT 78-93-3, 2-Butanone, reactions 97-65-4, Itaconic acid, reactions 103-44-6, 2-Ethylhexyl vinyl ether 109-53-5, Isobutyl vinyl ether 762-04-9, Diethylhydrogen phosphite 764-47-6, Propyl vinyl ether 765-12-8, Triethylene glycol divinyl ether 926-02-3, tert-Butyl vinyl ether 3891-33-6, 1,4-Butanediol divinyl ether 4712-55-4, Diphenylhydrogen phosphite 17351-75-6 35948-25-5, Sanko HCA 37971-36-1, PBTC
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reactant; preparation of phosphorus-containing carboxylic acid derivs. for ~~flame~~ retardants)

IT 25068-38-6, Epikote 828
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
 (cured; preparation of phosphorus-containing carboxylic acid derivs. for ~~flame~~ retardants for resin compns.)

RN 25068-38-6 CAPLUS
 CN Phenol, 4,4'-(1-methylethylidene)bis-, polymer with
 2-(chloromethyl)oxirane (CA INDEX NAME)

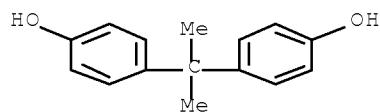
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CRN 106-89-8
 CMF C3 H5 Cl O



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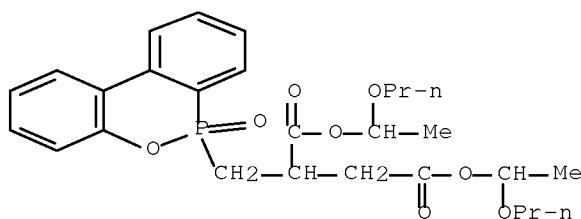
CRN 80-05-7
 CMF C15 H16 O2



IT 503623-54-9P 503623-55-0P 503623-56-1P
 503623-57-2P 503623-58-3P 503623-60-7P
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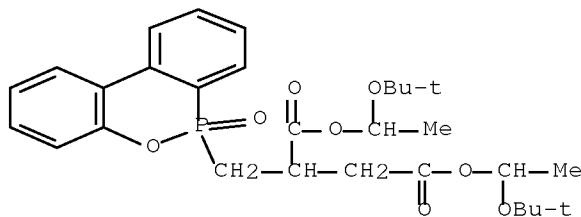
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
 (flame retardant; preparation of phosphorus-containing carboxylic acid derivs. for flame retardants)

RN 503623-54-9 CAPLUS
 CN Butanedioic acid, [(6-oxido-6H-dibenz[c,e][1,2]oxaphosphorin-6-yl)methyl]-, bis(1-propoxyethyl) ester (9CI) (CA INDEX NAME)



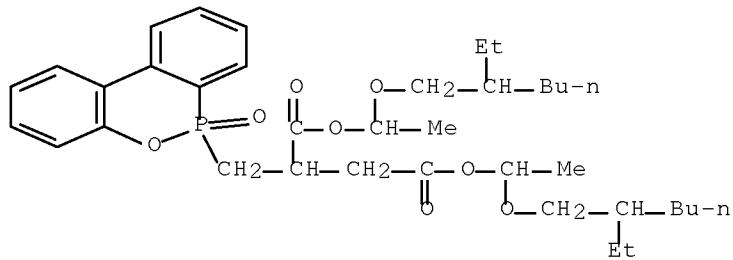
RN 503623-55-0 CAPLUS
 CN Butanedioic acid, [(6-oxido-6H-dibenz[c,e][1,2]oxaphosphorin-6-yl)methyl]-

, bis[1-(1,1-dimethylethoxy)ethyl] ester (9CI) (CA INDEX NAME)



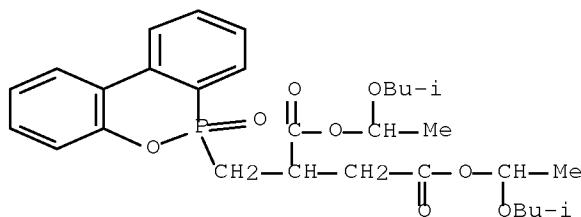
RN 503623-56-1 CAPLUS

CN Butanedioic acid, [(6-oxido-6H-dibenz[c,e][1,2]oxaphosphorin-6-yl)methyl]-, bis[1-[(2-ethylhexyl)oxy]ethyl] ester (9CI) (CA INDEX NAME)



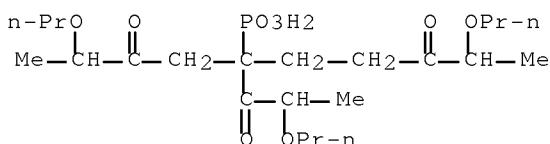
RN 503623-57-2 CAPLUS

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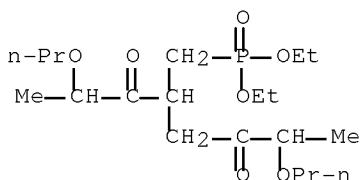
RN 503623-58-3 CAPLUS

CN Phosphonic acid, [4-oxo-1-(2-oxo-3-propoxypentyl)-1-(1-oxo-2-propoxypropyl)-5-propoxypentyl]- (9CI) (CA INDEX NAME)



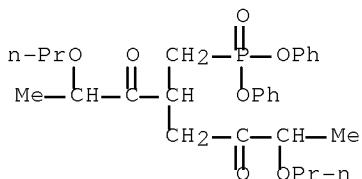
RN 503623-60-7 CAPLUS

CN Phosphonic acid, [4-oxo-2-(1-oxo-2-propoxypropyl)-5-propoxypentyl]-, diethyl ester (9CI) (CA INDEX NAME)



RN 503623-62-9 CAPLUS

CN Phosphonic acid, [4-oxo-2-(1-oxo-2-propoxypropyl)-5-propoxypentyl]-, diphenyl ester (9CI) (CA INDEX NAME)



RN 503835-09-4 CAPLUS

CN Poly[oxyethylideneoxy[[6-oxido-6H-dibenz[c,e][1,2]oxaphosphorin-6-yl)methyl]-1,4-dioxo-1,4-butanediyl]oxyethylideneoxymethylene-1,4-cyclohexanediylmethylene] (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 503835-10-7 CAPLUS

CN Poly[oxyethylideneoxy[[6-oxido-6H-dibenz[c,e][1,2]oxaphosphorin-6-yl)methyl]-1,4-dioxo-1,4-butanediyl]oxyethylideneoxy-1,4-butanediyl] (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 503835-20-9 CAPLUS

CN Poly[oxyethylideneoxy-1,2-ethanediylloxy-1,2-ethanediylloxy-1,2-ethanediylloxyethylideneoxy[[6-oxido-6H-dibenz[c,e][1,2]oxaphosphorin-6-yl)methyl]-1,4-dioxo-1,4-butanediyl]] (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 503623-61-8P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP

(Preparation); USES (Uses)

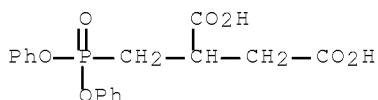
(intermediate; preparation of phosphorus-containing carboxylic acid derivs.

for

flame retardants)

RN 503623-61-8 CAPLUS

CN Butanedioic acid, 2-[(diphenoxypyrophosphinyl)methyl]- (CA INDEX NAME)



IT 63562-33-4P 503623-59-4P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

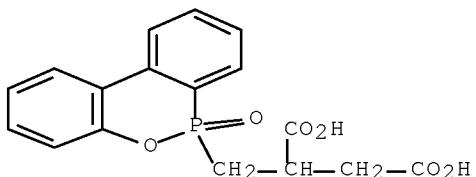
(intermediate; preparation of phosphorus-containing carboxylic acid derivs.

for

flame retardants)

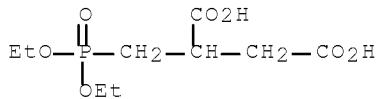
RN 63562-33-4 CAPLUS

CN Butanedioic acid, 2-[(6-oxido-6H-dibenz[c,e][1,2]oxaphosphorin-6-yl)methyl]- (CA INDEX NAME)



RN 503623-59-4 CAPLUS

CN Butanedioic acid, 2-[(diethoxypyrophosphinyl)methyl]- (CA INDEX NAME)

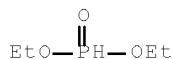
IT 762-04-9, Diethylhydrogen phosphite 4712-55-4,
Diphenylhydrogen phosphite 17351-75-6 35948-25-5,
Sanko HCA 37971-36-1, PBTC

RL: RCT (Reactant); RACT (Reactant or reagent)

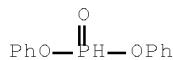
(reactant; preparation of phosphorus-containing carboxylic acid derivs. for
flame retardants)

RN 762-04-9 CAPLUS

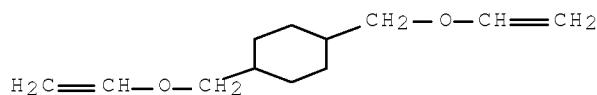
CN Phosphonic acid, diethyl ester (CA INDEX NAME)



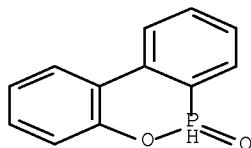
RN 4712-55-4 CAPLUS
 CN Phosphonic acid, diphenyl ester (CA INDEX NAME)



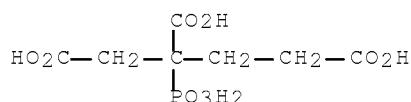
RN 17351-75-6 CAPLUS
 CN Cyclohexane, 1,4-bis[(ethenylloxy)methyl]- (CA INDEX NAME)



RN 35948-25-5 CAPLUS
 CN 6H-Dibenz[c,e][1,2]oxaphosphorin, 6-oxide (CA INDEX NAME)

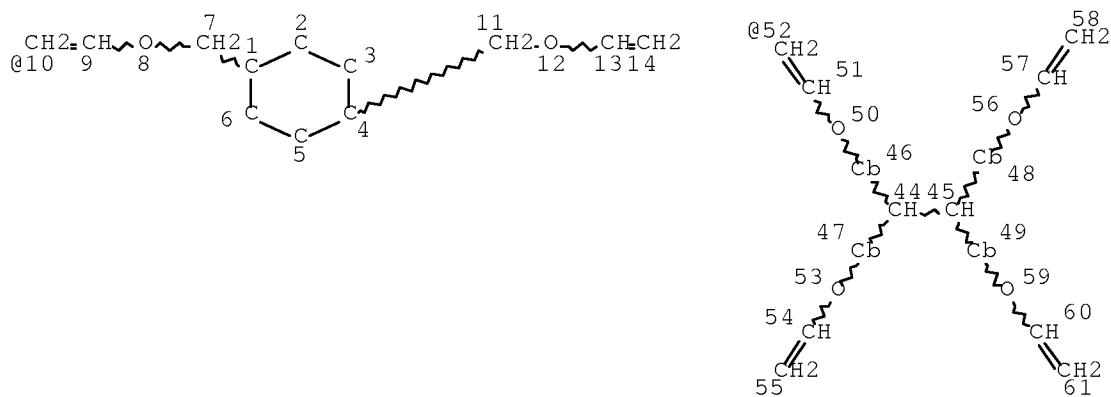


RN 37971-36-1 CAPLUS
 CN 1,2,4-Butanetricarboxylic acid, 2-phosphono- (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

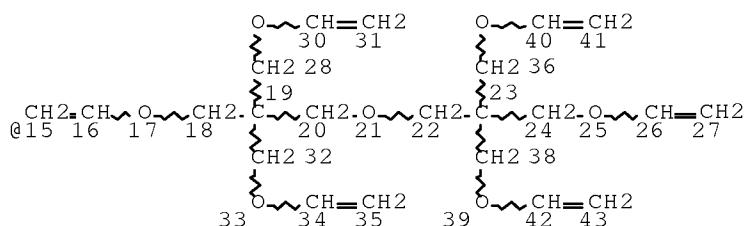
=> d que 135
 L18 STR



G1 62

29 - 37 -

Page 1-A



Page 2-A

VAR G1=10/52/15

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 62

STEREO ATTRIBUTES: NONE

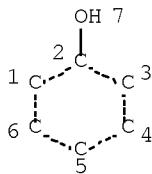
L20 272 SEA FILE=REGISTRY SSS FUL L18

L24 325 SEA FILE=CAPLUS SPE=ON ABB=ON PLU=ON L20

L26 TRANSFER PLU=ON L24 1- RN : 2814 TERMS

L27 2814 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L26

L28 73 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L27 AND P/ELS
L29 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 1
 NUMBER OF NODES IS 7

STEREO ATTRIBUTES: NONE

L31 196 SEA FILE=REGISTRY SUB=L27 SSS FUL L29
 L32 21 SEA FILE=CAPLUS SPE=ON ABB=ON PLU=ON L20 AND L31 AND L28
 L34 2 SEA FILE=CAPLUS SPE=ON ABB=ON PLU=ON L32 AND (?FIRE? OR
 ?FLAME?)
 L35 19 SEA FILE=CAPLUS SPE=ON ABB=ON PLU=ON L32 NOT L34

=> d 135 ibib abs hitstr tot

THE ESTIMATED COST FOR THIS REQUEST IS 107.16 U.S. DOLLARS
 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L35 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2008:1102363 CAPLUS Full-text
 DOCUMENT NUMBER: 149:366322
 TITLE: Anti-reflective coatings using vinyl ether
 crosslinkers
 INVENTOR(S): Guerrero, Douglas J.; Mercado, Ramil-Marcelo L.
 PATENT ASSIGNEE(S): Brewer Science Inc., USA
 SOURCE: PCT Int. Appl., 37pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008109198	A1	20080912	WO 2008-US51948	20080124
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

US 20070207406	A1	20070906	US 2007-683309	20070307
PRIORITY APPLN. INFO.:			US 2007-683309	A 20070307
			US 2004-566329P	P 20040429
			US 2005-105862	A2 20050414

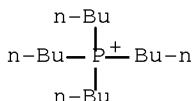
AB Novel, developer soluble anti-reflective coating compns. and methods of using those compns. are provided. The compns. comprise a polymer and/or oligomer having acid functional groups and dissolved in a solvent system along with a cross linker, a photoacid generator, and optionally a chromophore. The preferred acid functional group is a carboxylic acid, while the preferred crosslinker is a vinyl ether crosslinker. In use, the compns. are applied to a substrate and thermally crosslinked. Upon exposure to light (and optionally a post exposure bake), the cured compns. will decrosslink, rendering them soluble in typical photoresist developing solns. (e.g., alkaline developers). In one embodiment, the compns. can be used to form ion implant areas in microelectronic substrates.

IT 3115-68-2 28166-41-8

RL: RCT (Reactant); RACT (Reactant or reagent)
(anti-reflective coatings using vinyl ether crosslinkers)

RN 3115-68-2 CAPLUS

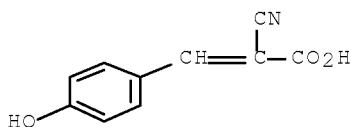
CN Phosphonium, tetrabutyl-, bromide (1:1) (CA INDEX NAME)



● Br⁻

RN 28166-41-8 CAPLUS

CN 2-Propenoic acid, 2-cyano-3-(4-hydroxyphenyl)- (CA INDEX NAME)



IT 7723-14-0, Phosphorus, uses 17351-75-6
75482-18-7

RL: TEM (Technical or engineered material use); USES (Uses)
(anti-reflective coatings using vinyl ether crosslinkers)

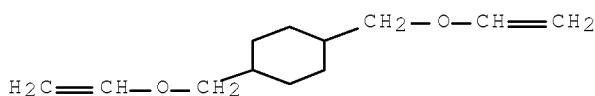
RN 7723-14-0 CAPLUS

CN Phosphorus (CA INDEX NAME)

P

RN 17351-75-6 CAPLUS

CN Cyclohexane, 1,4-bis[(ethenyloxy)methyl]- (CA INDEX NAME)



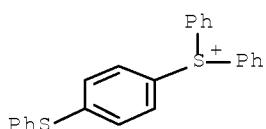
RN 75482-18-7 CAPLUS

CN Sulfonium, diphenyl[4-(phenylthio)phenyl]-, hexafluorophosphate(1-) (1:1) (CA INDEX NAME)

CM 1

CRN 47480-44-4

CMF C24 H19 S2

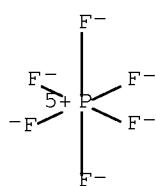


CM 2

CRN 16919-18-9

CMF F6 P

CCI CCS



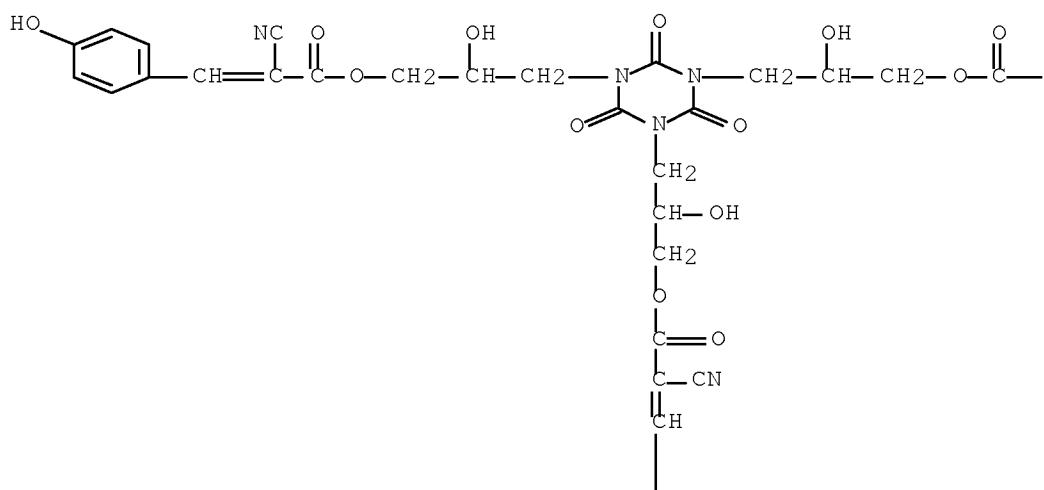
IT 948994-02-3P

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(chromophore; anti-reflective coatings using vinyl ether crosslinkers)

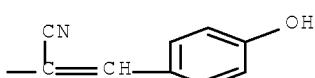
RN 948994-02-3 CAPLUS

CN 2-Propenoic acid, 2-cyano-3-(4-hydroxyphenyl)-, 1,1',1''-[(2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triyl)tris(2-hydroxy-3,1-propanediyl)] ester (CA INDEX NAME)

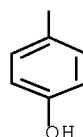
PAGE 1-A



PAGE 1-B



PAGE 2-A



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L35 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2007:993388 CAPLUS Full-text
 DOCUMENT NUMBER: 147:353247
 TITLE: Anti-reflective coatings using vinyl ether crosslinkers
 INVENTOR(S): Guerrero, Douglas J.; Mercado, Ramil-Marcelo L.
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 14pp., Cont.-in-part of U.S. Ser. No. 105,862.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

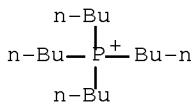
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20070207406	A1	20070906	US 2007-683309	20070307
US 20050255410	A1	20051117	US 2005-105862	20050414
WO 2008109198	A1	20080912	WO 2008-US51948	20080124
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRIORITY APPLN. INFO.:			US 2004-566329P	P 20040429
			US 2005-105862	A2 20050414
			US 2007-683309	A 20070307

AB Novel, developer soluble anti-reflective coating compns. and methods of using those compns. are provided. The compns. comprise a polymer and/or oligomer having acid functional groups and dissolved in a solvent system along with a cross linker, a photoacid generator, and optionally a chromophore. The preferred acid functional group is a carboxylic acid, while the preferred crosslinker is a vinyl ether crosslinker. In use, the compns. are applied to a substrate and thermally crosslinked. Upon exposure to light (and optionally a post exposure bake), the cured compns. will decrosslink, rendering them soluble in typical photoresist developing solns. (e.g., alkaline developers). In one embodiment, the compns. can be used to form ion implant areas in microelectronic substrates.

IT 3115-68-2, Tetrabutylphosphonium bromide 28166-41-8,
 α -Cyano-4-hydroxycinnamic acid
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (anti-reflective coatings using vinyl ether crosslinkers)

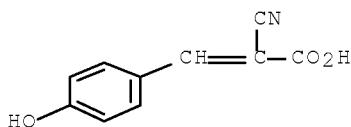
RN 3115-68-2 CAPLUS

CN Phosphonium, tetrabutyl-, bromide (1:1) (CA INDEX NAME)



● Br⁻

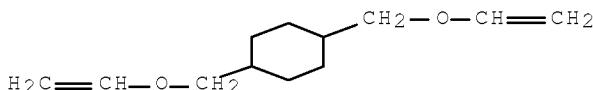
RN 28166-41-8 CAPLUS
 CN 2-Propenoic acid, 2-cyano-3-(4-hydroxyphenyl)- (CA INDEX NAME)



IT 7723-14-0, Phosphorus, uses 17351-75-6, 1,4-Cyclohexane dimethanol divinyl ether 75482-18-7, DTS 102
 RL: TEM (Technical or engineered material use); USES (Uses)
 (anti-reflective coatings using vinyl ether crosslinkers)
 RN 7723-14-0 CAPLUS
 CN Phosphorus (CA INDEX NAME)

P

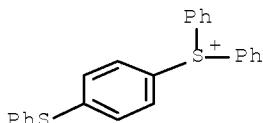
RN 17351-75-6 CAPLUS
 CN Cyclohexane, 1,4-bis[(ethenyloxy)methyl]- (CA INDEX NAME)



RN 75482-18-7 CAPLUS
 CN Sulfonium, diphenyl[4-(phenylthio)phenyl]-, hexafluorophosphate(1-) (1:1)
 (CA INDEX NAME)

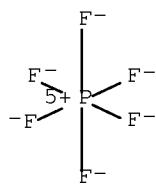
CM 1

CRN 47480-44-4
 CMF C24 H19 S2



CM 2

CRN 16919-18-9
 CMF F6 P
 CCI CCS



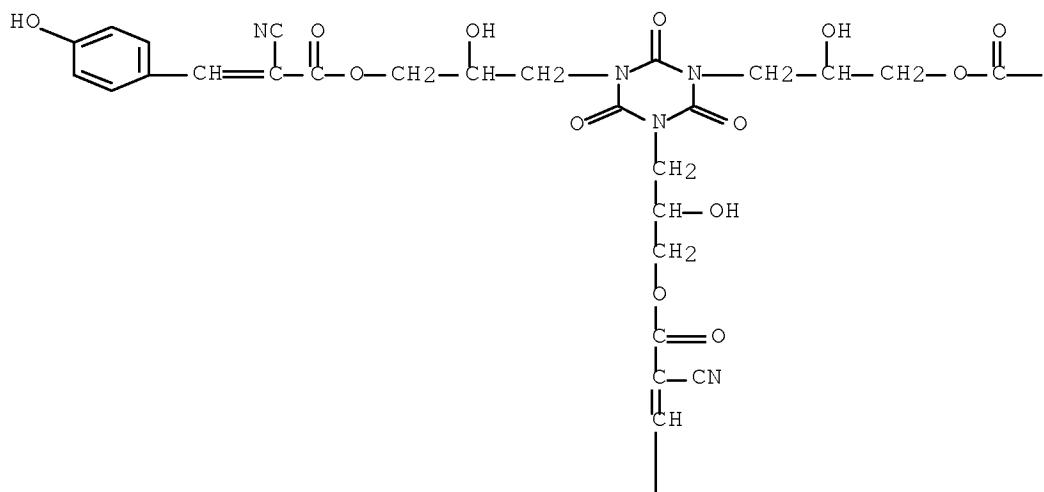
IT 948994-02-3P

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (chromophore; anti-reflective coatings using vinyl ether crosslinkers)

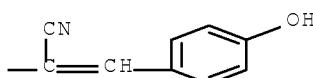
RN 948994-02-3 CAPLUS

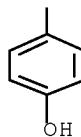
CN 2-Propenoic acid, 2-cyano-3-(4-hydroxyphenyl)-,
 1,1',1''-[(2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triyl)tris(2-hydroxy-3,1-propanediyl)] ester (CA INDEX NAME)

PAGE 1-A



PAGE 1-B





L35 ANSWER 3 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2005:1242883 CAPLUS Full-text
 DOCUMENT NUMBER: 143:478398
 TITLE: Polyisobutylene compositions and cured polyisobutylene articles therewith
 INVENTOR(S): Bahadur, Maneesh; Lo, Peter Yin; Vaughn, Patrick
 PATENT ASSIGNEE(S): Dow Corning Corporation, USA
 SOURCE: U.S. Pat. Appl. Publ., 10 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

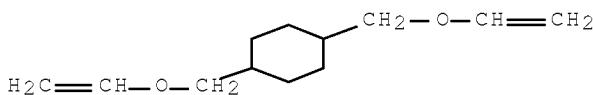
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20050261441	A1	20051124	US 2005-80291	20050315
PRIORITY APPLN. INFO.:			US 2004-573422P	P 20040521

AB A polyisobutylene composition, comprising (A) a polyisobutylene polymer selected from (i) a glycidoxyl-functional polyisobutylene polymer containing an average of at least two glycidoxyl groups per mol. having the formula OCH₂CH(O)CH₂ and (ii) an alkenyl ether-functional polyisobutylene polymer containing an average of at least two alkenyl ether groups per mol. having the formula SiR₁a[OR₂OC(R₃)CH(R₃)]_{3-a}, wherein each R₁ = C₁₋₁₀ hydrocarbyl, C₁₋₁₀ halogen-substituted hydrocarbyl, or C₁₋₈ alkoxy, R₂ = C₁₋₁₀ hydrocarbylene or C₁₋₁₀ halogen-substituted hydrocarbylene, each R₃ = C₁₋₁₀ hydrocarbyl, C₁₋₁₀ halogen-substituted hydrocarbyl, or H, a = 0, 1, or 2, and at least 50 mol % of the repeat units in the polyisobutylene polymer are isobutylene units having the formula: CH₂C(CH₃)₂; (B) an epoxy-functional organosiloxane containing 0.5-20% silicon, an average of at least two siloxane linkages per mol., and an average of at least two epoxy groups per mol.; and (C) a catalytic amount of a cationic photoinitiator. And a cured polyisobutylene product prepared by curing the polyisobutylene composition

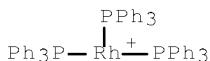
IT 17351-75-6P, 1,4-Cyclohexanedimethanol divinyl ether
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (crosslinked; polyisobutylene compns. and cured polyisobutylene articles therewith)

RN 17351-75-6 CAPLUS

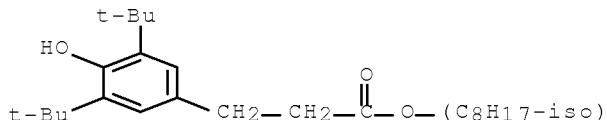
CN Cyclohexane, 1,4-bis[(ethoxyloxy)methyl] - (CA INDEX NAME)



IT 47897-43-8
 RL: CAT (Catalyst use); USES (Uses)
 (polyisobutylene compns. and cured polyisobutylene articles therewith)
 RN 47897-43-8 CAPLUS
 CN Rhodium(1+), tris(triphenylphosphine)- (CA INDEX NAME)

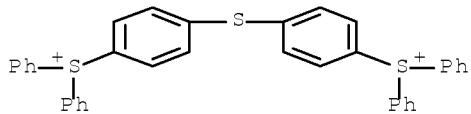


IT 146598-26-7, Irganox 1135
 RL: MOA (Modifier or additive use); USES (Uses)
 (polyisobutylene compns. and cured polyisobutylene articles therewith)
 RN 146598-26-7 CAPLUS
 CN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, isoctyl
 ester (CA INDEX NAME)

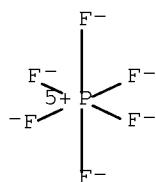


L35 ANSWER 4 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2004:613811 CAPLUS Full-text
 DOCUMENT NUMBER: 141:278268
 TITLE: Investigation of the tensile properties of "epoxy
 resin-monomer" systems using cationic UV-crosslinkable
 blends
 AUTHOR(S): Czech, Zbigniew; Urbala, Magdalena; Martysz, Dagmara
 CORPORATE SOURCE: Polymer Institute, Technical University of Szczecin,
 Szczecin, 70-322, Pol.
 SOURCE: Polymers for Advanced Technologies (2004), 15(7),
 387-392
 CODEN: PADTE5; ISSN: 1042-7147
 PUBLISHER: John Wiley & Sons Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The compatibility of cycloaliph. and aromatic multifunctional epoxides with
 several epoxide resins allows the development of a wide range of cationic
 radiation-curable formulations. The influence of different "epoxide resin-
 monomer" systems UV-cured in the presence of suitable cationic photoinitiators
 on the resulting mech. film properties was studied, and the results are
 stated.
 IT 74227-35-3, Degacure KI 85
 RL: CAT (Catalyst use); USES (Uses)
 (tensile properties of cationic photocrosslinked epoxy resin-monomer
 systems)
 RN 74227-35-3 CAPLUS
 CN Sulfonium, (thiodi-4,1-phenylene)bis[diphenyl-, hexafluorophosphate(1-)
 (1:2) (CA INDEX NAME)

CM 1

CRN 74227-34-2
CMF C36 H28 S3

CM 2

CRN 16919-18-9
CMF F6 P
CCI CCS

IT 760962-60-5P, DEN-439-Rutapox 0161 copolymer 760962-62-7P
 760962-63-8P 760962-67-2P 760962-68-3P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (tensile properties of cationic photocrosslinked epoxy resin-monomer
 systems)

RN 760962-60-5 CAPLUS
 CN Phenol, 4,4'-methylenebis-, polymer with (chloromethyl)oxirane and DEN 439
 (9CI) (CA INDEX NAME)

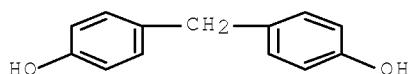
CM 1

CRN 63957-65-3
CMF Unspecified
CCI PMS, MAN

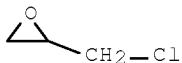
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 620-92-8
CMF C13 H12 O2



CM 3

CRN 106-89-8
CMF C3 H5 Cl O

RN 760962-62-7 CAPLUS

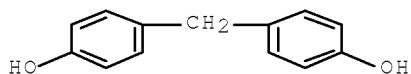
CN Phenol, 4,4'-methylenebis-, polymer with (chloromethyl)oxirane and Quatrex 1410 (9CI) (CA INDEX NAME)

CM 1

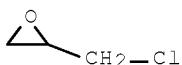
CRN 127121-18-0
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 620-92-8
CMF C13 H12 O2

CM 3

CRN 106-89-8
CMF C3 H5 Cl O

RN 760962-63-8 CAPLUS

CN Phenol, 4,4'-methylenebis-, polymer with (chloromethyl)oxirane, Quatrex 1410 and 3,6,9,12-tetraoxatetradeca-1,13-diene (9CI) (CA INDEX NAME)

CM 1

CRN 127121-18-0

CMF Unspecified

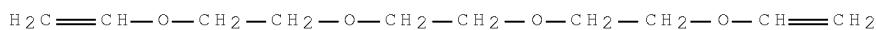
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 765-12-8

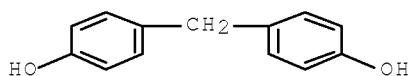
CMF C10 H18 O4



CM 3

CRN 620-92-8

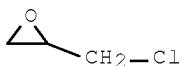
CMF C13 H12 O2



CM 4

CRN 106-89-8

CMF C3 H5 Cl O



RN 760962-67-2 CAPLUS

CN Cyclohexane, 1,4-bis[(ethenyloxy)methyl]-, polymer with Quatrex 1410 (9CI) (CA INDEX NAME)

CM 1

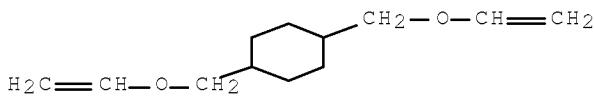
CRN 127121-18-0

CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 17351-75-6
 CMF C12 H20 O2



RN 760962-68-3 CAPLUS
 CN Cyclohexane, 1,4-bis[(ethenylloxy)methyl]-, polymer with DEN 439 (9CI) (CA INDEX NAME)

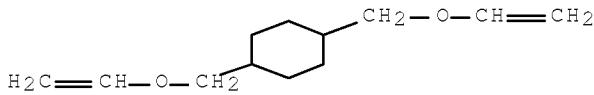
CM 1

CRN 63957-65-3
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 17351-75-6
 CMF C12 H20 O2



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L35 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2004:217233 CAPLUS Full-text
 DOCUMENT NUMBER: 140:254601
 TITLE: Cellulose acylate films with good optical properties, low haze, and high tear strength and polarizing plates using them
 INVENTOR(S): Kato, Eichi
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 31 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1

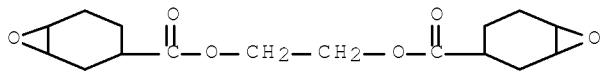
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004083657	A	20040318	JP 2002-243596	20020823
PRIORITY APPLN. INFO.:			JP 2002-243596	20020823
AB	The films, showing thickness 10-30 μm , are manufactured by casting cellulose acylate dopes containing (functional group-containing) monomers and photopolymn. initiators and photopolymg. the monomers before or after drying. Thus, a film was manufactured from a dope containing cellulose triacetate, plasticizers, SiO_2 microparticles, vinyl acetate, octadecyl methacrylate, benzotriazole-containing methacrylate, and photopolymn. initiator. The film showed haze before and after storage (90°, 80% humidity, 500 h) 0.4 and 0.4%, resp., tear strength before and after the storage 520 and 505 g, resp., and no contamination. A durable polarizing plate was manufactured using the film.			
IT	658059-85-9P 671773-87-8P 671773-89-0P 671773-93-6P			
	RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (cellulose acylate films containing photopolymd. monomers for polarizing plates)			
RN	658059-85-9 CAPLUS			
CN	7-Oxabicyclo[4.1.0]heptane-3-carboxylic acid, 1,1'-(1,2-ethanediyl) ester, polymer with 1,4-bis[(ethenyoxy)methyl]cyclohexane (CA INDEX NAME)			

CM 1

CRN 72046-03-8

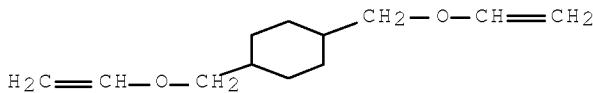
CMF C16 H22 O6



CM 2

CRN 17351-75-6

CMF C12 H20 O2

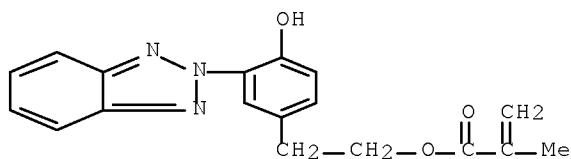


RN 671773-87-8 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]ethyl ester, polymer with ethenyl acetate and octadecyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

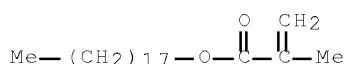
CM 1

CRN 96478-09-0
 CMF C18 H17 N3 O3



CM 2

CRN 32360-05-7
 CMF C22 H42 O2



CM 3

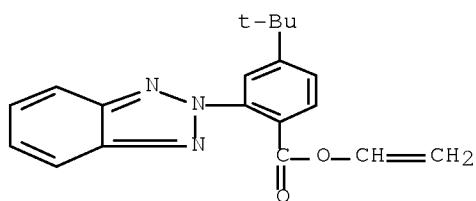
CRN 108-05-4
 CMF C4 H6 O2



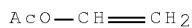
RN 671773-89-0 CAPLUS
 CN Benzenemethanaminium, 4-ethenyl-N-hexyl-N,N-dimethyl-,
 hexafluorophosphate(1-), polymer with ethenyl acetate and ethenyl
 2-(2H-benzotriazol-2-yl)-4-(1,1-dimethylethyl)benzoate (9CI) (CA INDEX
 NAME)

CM 1

CRN 671773-88-9
 CMF C19 H19 N3 O2



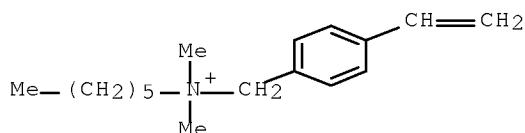
CM 2

CRN 108-05-4
CMF C4 H6 O2

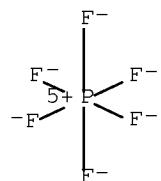
CM 3

CRN 669060-46-2
CMF C17 H28 N . F6 P

CM 4

CRN 669060-45-1
CMF C17 H28 N

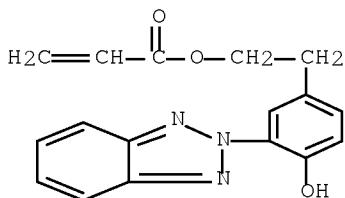
CM 5

CRN 16919-18-9
CMF F6 P
CCI CCS

RN 671773-93-6 CAPLUS
 CN 2-Propenoic acid, 2-methyl-, 4-benzoylphenyl ester, polymer with
 2-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]ethyl 2-propenoate and propyl
 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

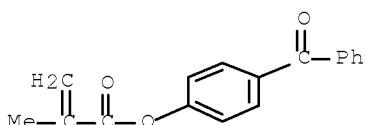
CM 1

CRN 170103-27-2
 CMF C17 H15 N3 O3



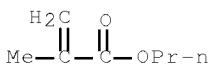
CM 2

CRN 56467-43-7
 CMF C17 H14 O3



CM 3

CRN 2210-28-8
 CMF C7 H12 O2

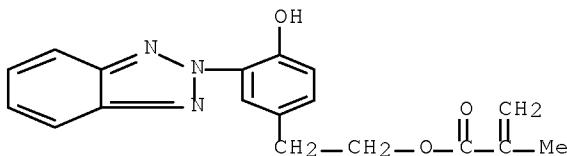


L35 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2004:200266 CAPLUS [Full-text](#)
 DOCUMENT NUMBER: 140:261158
 TITLE: Defect-free cellulose acylate films with high tear
 strength, their manufacture, and polarizer plates
 therewith
 INVENTOR(S): Kato, Eichi
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 33 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004074633	A	20040311	JP 2002-239487	20020820
PRIORITY APPLN. INFO.:			JP 2002-239487	20020820
AB	Cellulose acylate dopes containing (functional group-containing) monomers and photopolymn. initiators are extruded onto drums and exposed at dope layer temperature 25-40° to give films with min. retardation, high rigidity, and excellent transparency.			
IT	272116-58-2P 658059-85-9P 669060-48-4P 669060-50-8P 669063-45-0P RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (manufacture of defect-free cellulose acylate films with high tear strength for LCD polarizers)			
RN	272116-58-2 CAPLUS			
CN	2-Propenoic acid, 2-methyl-, 2-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]ethyl ester, polymer with octadecyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)			

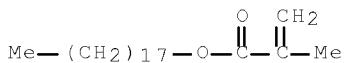
CM 1

CRN 96478-09-0
CMF C18 H17 N3 O3



CM 2

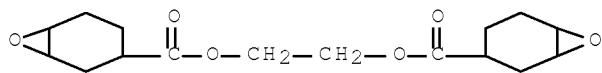
CRN 32360-05-7
CMF C22 H42 O2



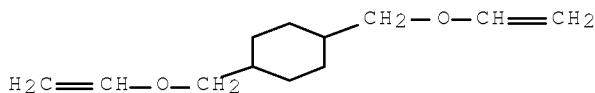
RN 658059-85-9 CAPLUS
CN 7-Oxabicyclo[4.1.0]heptane-3-carboxylic acid, 1,1'-(1,2-ethanediyl) ester, polymer with 1,4-bis[(ethenylloxy)methyl]cyclohexane (CA INDEX NAME)

CM 1

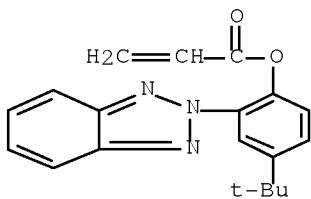
CRN 72046-03-8
CMF C16 H22 O6



CM 2

CRN 17351-75-6
CMF C12 H20 O2RN 669060-48-4 CAPLUS
CN Benzenemethanaminium, 4-ethenyl-N-hexyl-N,N-dimethyl-,
hexafluorophosphate(1-), polymer with
2-(2H-benzotriazol-2-yl)-4-(1,1-dimethylethyl)phenyl 2-propenoate and
ethenyl acetate (9CI) (CA INDEX NAME)

CM 1

CRN 669060-47-3
CMF C19 H19 N3 O2

CM 2

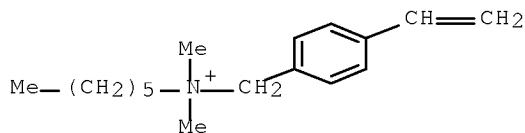
CRN 108-05-4
CMF C4 H6 O2

CM 3

CRN 669060-46-2
 CMF C17 H28 N . F6 P

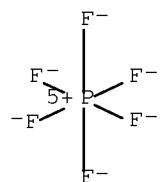
CM 4

CRN 669060-45-1
 CMF C17 H28 N



CM 5

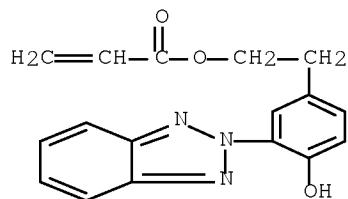
CRN 16919-18-9
 CMF F6 P
 CCI CCS



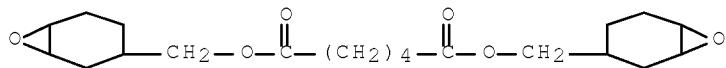
RN 669060-50-8 CAPLUS
 CN Hexanedioic acid, bis(7-oxabicyclo[4.1.0]hept-3-ylmethyl) ester, polymer with 2-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]ethyl 2-propenoate (9CI)
 (CA INDEX NAME)

CM 1

CRN 170103-27-2
 CMF C17 H15 N3 O3



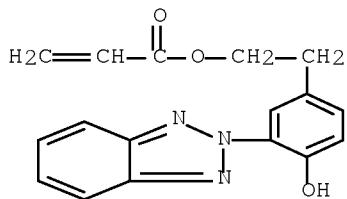
CM 2

CRN 3130-19-6
CMF C20 H30 O6

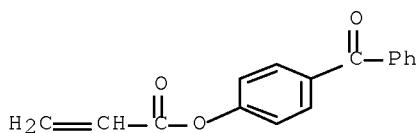
RN 669063-45-0 CAPLUS

CN 2-Propenoic acid, 2-methyl-, propyl ester, polymer with
2-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]ethyl 2-propenoate and
4-benzoylphenyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

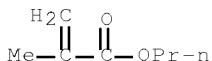
CRN 170103-27-2
CMF C17 H15 N3 O3

CM 2

CRN 22535-49-5
CMF C16 H12 O3

CM 3

CRN 2210-28-8
CMF C7 H12 O2



IT 184591-55-7

RL: CAT (Catalyst use); TEM (Technical or engineered material use); USES
(Uses)(photopolymer. catalysts; manufacture of defect-free cellulose acylate films
with high tear strength for LCD polarizers)

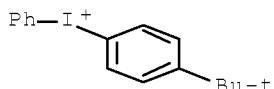
RN 184591-55-7 CAPLUS

CN Iodonium, [4-(1,1-dimethylethyl)phenyl]phenyl-, hexafluorophosphate(1-)
(1:1) (CA INDEX NAME)

CM 1

CRN 94590-80-4

CMF C16 H18 I

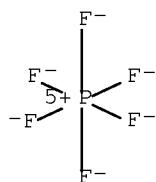


CM 2

CRN 16919-18-9

CMF F6 P

CCI CCS



L35 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:180035 CAPLUS Full-text

DOCUMENT NUMBER: 140:243664

TITLE: Cellulose acylate films with excellent transparency,
tear strength, and weather resistance, their
manufacture, and optical films, liquid crystal
displays, and silver halide photographic materials
using them

INVENTOR(S): Kato, Eiichi

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 52 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

1

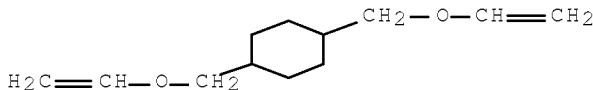
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004067816	A	20040304	JP 2002-227579	20020805
PRIORITY APPLN. INFO.:				
AB The films are manufactured by casting cellulose acylate compns. containing polymerizable monomers, photothermal converting agents, and thermal polymerization initiators and irradiating them with IR.				
IT 151543-64-5P, Poly(1,4-cyclohexanedimethanol divinyl ether)			JP 2002-227579	20020805
658059-89-3P 658059-91-7P 658059-97-3P				
658060-03-8P 658060-09-4P 658060-36-7P				
658060-38-9DP, polymers 666837-41-8P				
666837-57-6DP, reaction products with epoxy resin				
RL: DEV (Device component use); IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)				
(manufacture of cellulose acylate cast films with good transparency, tear strength, and weather resistance for optical use)				
RN 151543-64-5 CAPLUS				
CN Cyclohexane, 1,4-bis[(ethenylloxy)methyl]-, homopolymer (CA INDEX NAME)				

CM 1

CRN 17351-75-6

CMF C12 H20 O2



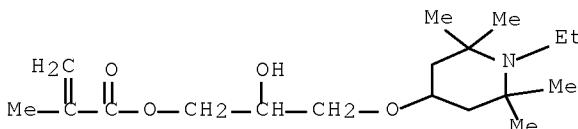
RN 658059-89-3 CAPLUS

CN Butanedioic acid, 5-[4-(5-chloro-2H-benzotriazol-2-yl)-5-hydroxy-2-methylphenoxy]-2-hydroxypentyl 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with cyclooctylmethyl 2-propenoate, 3-[(1-ethyl-2,2,6,6-tetramethyl-4-piperidinyl)oxy]-2-hydroxypropyl 2-methyl-2-propenoate and 2-[(3-hydroxy-2,2-bis[(1-oxo-2-propenyl)oxy]methyl)propoxy]methyl-2-[(1-oxo-2-propenyl)oxy]methyl-1,3-propanediyl di-2-propenoate (9CI) (CA INDEX NAME)

CM 1

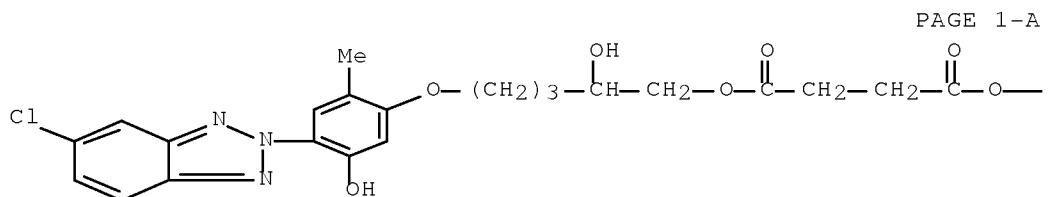
CRN 658059-88-2

CMF C18 H33 N O4



CM 2

CRN 658059-87-1
CMF C28 H32 C1 N3 09



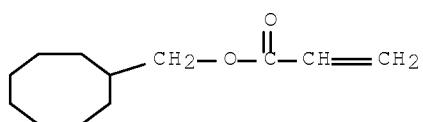
PAGE 1-A



PAGE 1 - B

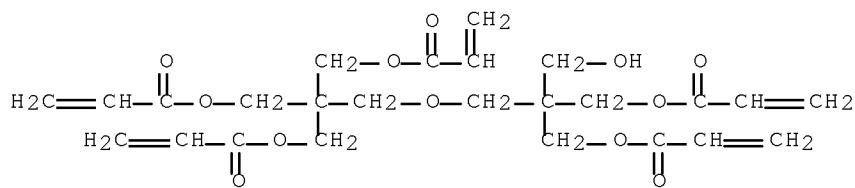
CM 3

CRN 654072-00-1
CMF C12 H20 O2



CM 4

CRN 60506-81-2
CMF C25 H32 012



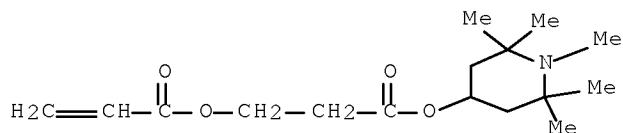
RN 658059-91-7 CAPLUS

CN 2-Propenoic acid, 2-[{3-hydroxy-2,2-bis[[(1-oxo-2-propenyl)oxy]methyl]propoxy]methyl]-2-[(1-oxo-2-propenyl)oxy]methyl-1,3-propanediyl ester, polymer with 3-(4-benzoyl-3-hydroxyphenoxy)-2-hydroxypropyl 2-propenoate, cyclooctylmethyl 2-propenoate and 3-oxo-3-[(1,2,2,6,6-pentamethyl-4-piperidinyl)oxy]propyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 658059-90-6

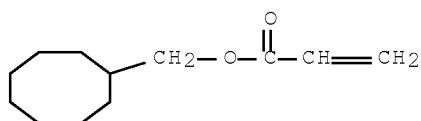
CMF C16 H27 N O4



CM 2

CRN 654072-00-1

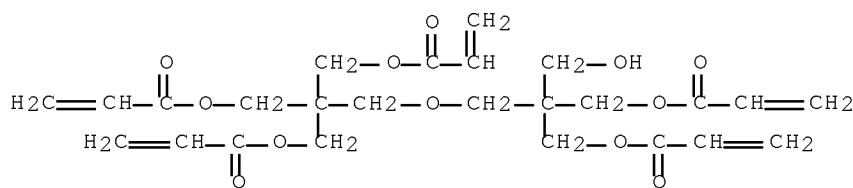
CMF C12 H20 O2



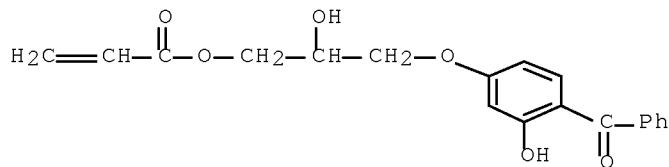
CM 3

CRN 60506-81-2

CMF C25 H32 O12



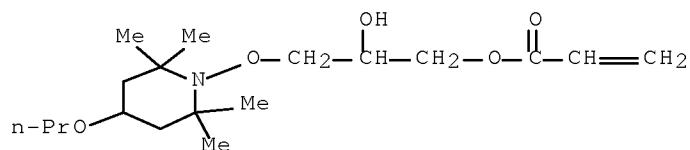
CM 4

CRN 1843-07-8
CMF C19 H18 O6

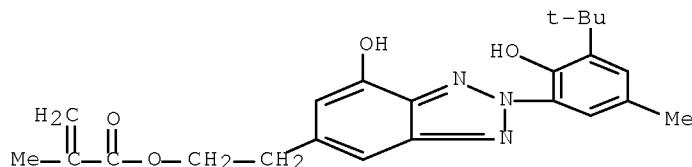
RN 658059-97-3 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[2-[3-(1,1-dimethylethyl)-2-hydroxy-5-methylphenyl]-7-hydroxy-2H-benzotriazol-5-yl]ethyl ester, polymer with cyclooctylmethyl 2-propenoate, 2-[3-hydroxy-2,2-bis[(1-oxo-2-propenyl)oxy]methyl]propoxy]methyl]-2-[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate and 2-hydroxy-3-[(2,2,6,6-tetramethyl-4-propoxy-1-piperidinyl)oxy]propyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

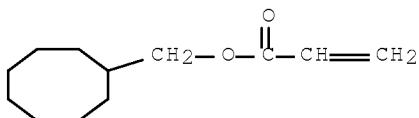
CRN 658059-96-2
CMF C18 H33 N 05

CM 2

CRN 658059-95-1
CMF C23 H27 N3 O4

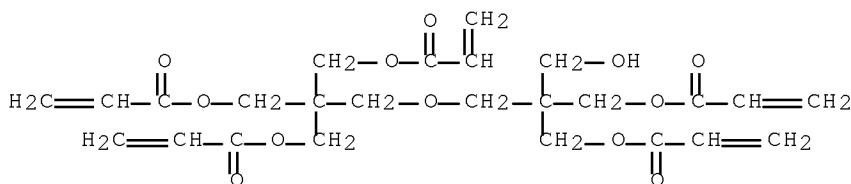
CM 3

CRN 654072-00-1
CMF C12 H20 O2



CM 4

CRN 60506-81-2
CMF C25 H32 012

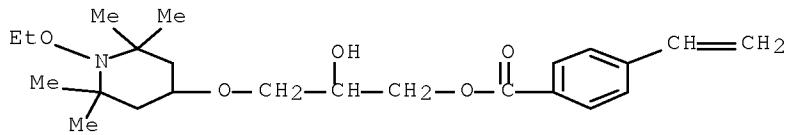


RN 658060-03-8 CAPLUS

CN Benzoic acid, 4-ethenyl-, 3-[(1-ethoxy-2,2,6,6-tetramethyl-4-piperidinyl)oxy]-2-hydroxypropyl ester, polymer with cyclooctylmethyl 2-propenoate, 2-(1,1-dimethylethyl)-4-[3-[(4-ethenylphenyl)methoxy]-2-hydroxypropoxy]-6-(5-methoxy-2H-benzotriazol-2-yl)phenol and 2-[[3-hydroxy-2,2-bis[[[(1-oxo-2-propenyl)oxy]methyl]propoxy]methyl]-2-[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate (9CI) (CA INDEX NAME)

CM 1

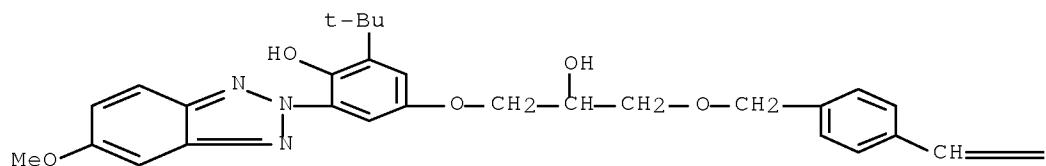
CRN 658060-02-7
CMF C23 H35 N 05



CM 2

CRN 658060-01-6
CMF C29 H33 N3 05

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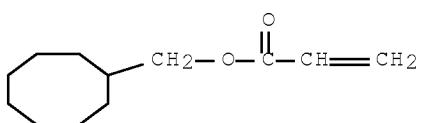


PAGE 1-B

 $\equiv \text{CH}_2$

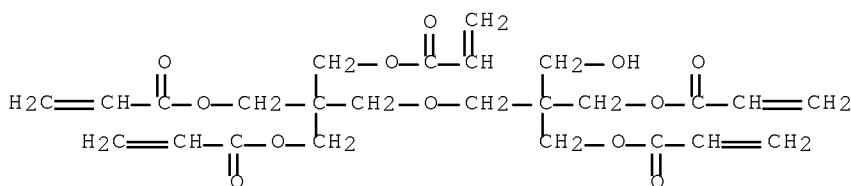
CM 3

CRN 654072-00-1
 CMF C12 H20 O2



CM 4

CRN 60506-81-2
 CMF C25 H32 O12

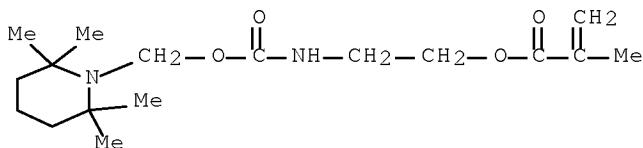


RN 658060-09-4 CAPLUS
 CN 2-Propenoic acid, 2-methyl-, 2-[[[[(2,2,6,6-tetramethyl-1-piperidinyl)methoxy]carbonyl]amino]ethyl ester, polymer with

3-[4-[4,6-bis(4-methylphenyl)-1,3,5-triazin-2-yl]-3-hydroxyphenoxy]-3-oxopropyl 2-propenoate, cyclooctylmethyl 2-propenoate and 2-[3-hydroxy-2,2-bis[[[(1-oxo-2-propenyl)oxy]methyl]propoxy]methyl]-2-[(1-oxo-2-propenyl)oxy]methyl-1,3-propanediyl di-2-propenoate (9CI) (CA INDEX NAME)

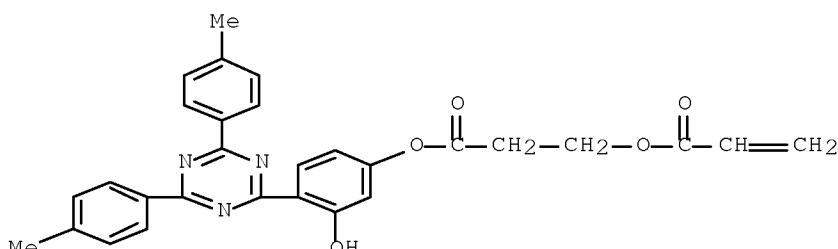
CM 1

CRN 658060-08-3
CMF C17 H30 N2 O4



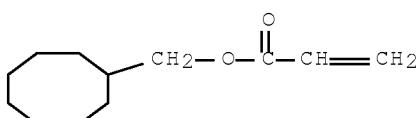
CM 2

CRN 658060-07-2
CMF C29 H25 N3 O5



CM 3

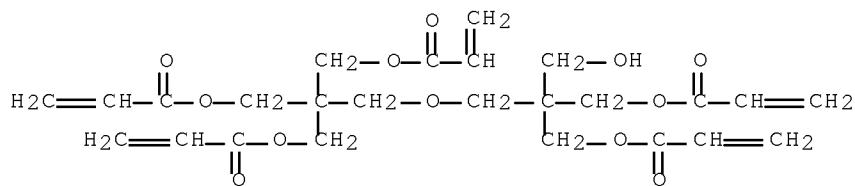
CRN 654072-00-1
CMF C12 H20 O2



CM 4

CRN 60506-81-2

CMF C25 H32 O12



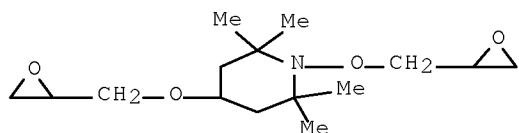
RN 658060-36-7 CAPLUS

CN 2H-Benzotriazole-5-propanoic acid, 2-[2-hydroxy-3-(1-methylethyl)phenyl]-, 2-(ethenyloxy)ethyl ester, polymer with 2,2'-(1-methylethylidene)bis(4,1-cyclohexanediylloxymethylene)bis[oxirane], 2,2,6,6-tetramethyl-1,4-bis(oxiranylmethoxy)piperidine and 1,3,5-tris[2-(ethenyloxy)ethoxy]benzene (9CI) (CA INDEX NAME)

CM 1

CRN 658060-35-6

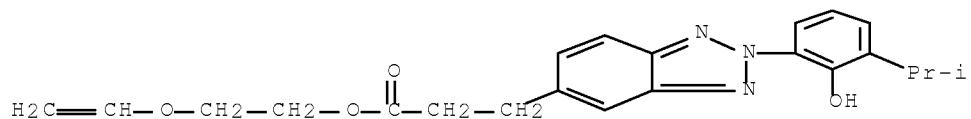
CMF C15 H27 N O4



CM 2

CRN 658060-34-5

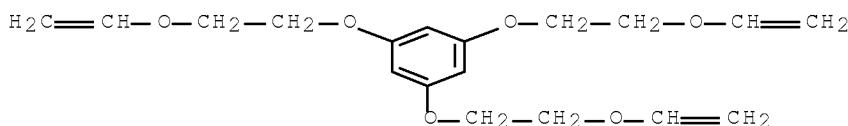
CMF C22 H25 N3 O4



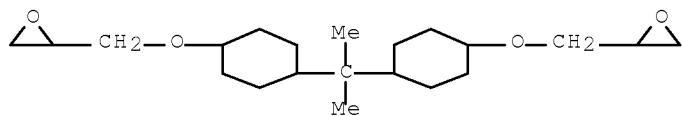
CM 3

CRN 142248-13-3

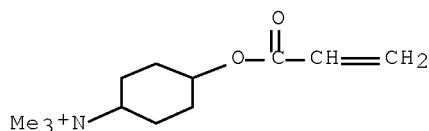
CMF C18 H24 O6



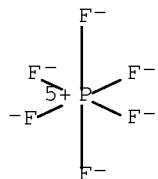
CM 4

CRN 13410-58-7
CMF C21 H36 O4RN 658060-38-9 CAPLUS
CN Cyclohexanaminium, N,N,N-trimethyl-4-[(1-oxo-2-propen-1-yl)oxy]-, hexafluorophosphate(1-) (1:1) (CA INDEX NAME)

CM 1

CRN 658060-37-8
CMF C12 H22 N O2

CM 2

CRN 16919-18-9
CMF F6 P
CCI CCS

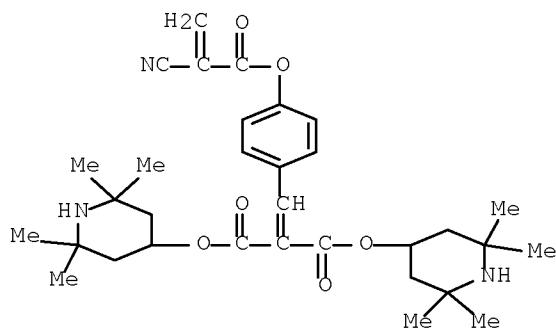
RN 666837-41-8 CAPLUS

CN Propanedioic acid, [[4-[(2-cyano-1-oxo-2-propenyl)oxy]phenyl]methylene]-, bis(2,2,6,6-tetramethyl-4-piperidinyl) ester, polymer with cyclooctylmethyl 2-propenoate, 2-[3-hydroxy-2,2-bis[(1-oxo-2-propenyl)oxy]methyl]propoxy]methyl]-2-[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate and 3-[4-hydroxy-3-(5-methyl-2H-benzotriazol-2-yl)phenyl]propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 666837-40-7

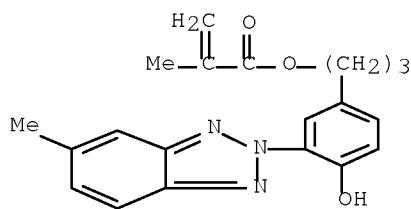
CMF C32 H43 N3 O6



CM 2

CRN 658059-92-8

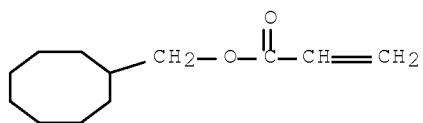
CMF C20 H21 N3 O3



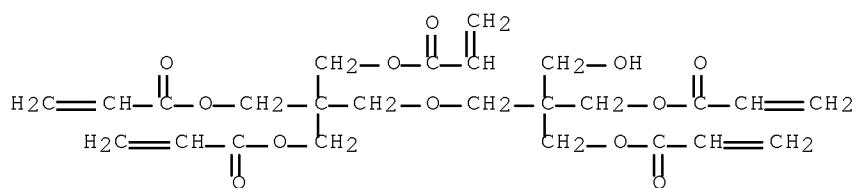
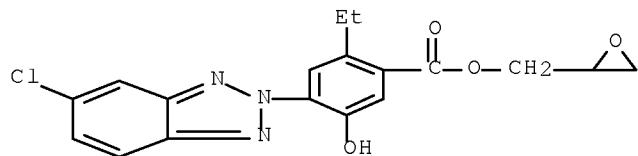
CM 3

CRN 654072-00-1

CMF C12 H20 O2

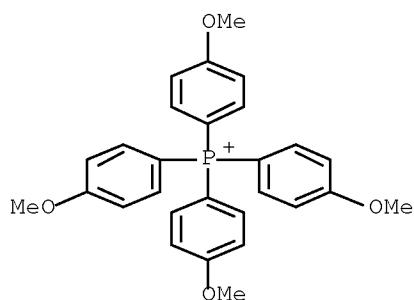


CM 4

CRN 60506-81-2
CMF C25 H32 O12RN 666837-57-6 CAPLUS
CN Benzoic acid, 4-(5-chloro-2H-benzotriazol-2-yl)-2-ethyl-5-hydroxy-, 2-oxiranylmethyl ester (CA INDEX NAME)IT 191043-97-7
RL: CAT (Catalyst use); USES (Uses)
(photopolymer. initiator; manufacture of cellulose acylate cast films with good transparency, tear strength, and weather resistance for optical use)
RN 191043-97-7 CAPLUS
CN Phosphonium, tetrakis(4-methoxyphenyl)-, tetrafluoroborate(1-) (1:1) (CA INDEX NAME)

CM 1

CRN 47718-95-6
CMF C28 H28 O4 P

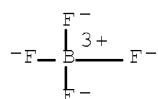


CM 2

CRN 14874-70-5

CMF B F4

CCI CCS



IT 666837-30-5 666837-34-9

RL: CAT (Catalyst use); USES (Uses)

(photothermal converter; manufacture of cellulose acylate cast films with good transparency, tear strength, and weather resistance for optical use)

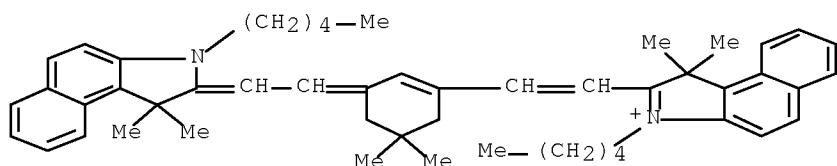
RN 666837-30-5 CAPLUS

CN 1H-Benz[e]indolium, 2-[2-[3-[2-(1,3-dihydro-1,1-dimethyl-3-pentyl-2H-benz[e]indol-2-ylidene)ethylidene]-5,5-dimethyl-1-cyclohexen-1-yl]ethenyl]-1,1-dimethyl-3-pentyl-, hexafluorophosphate(1-) (1:1) (CA INDEX NAME)

CM 1

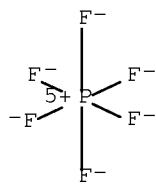
CRN 666837-29-2

CMF C50 H61 N2



CM 2

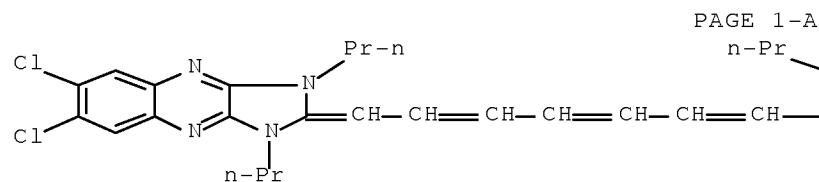
CRN 16919-18-9
 CMF F6 P
 CCI CCS



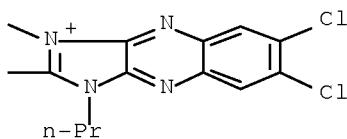
RN 666837-34-9 CAPLUS
 CN 1H-Imidazo[4,5-b]quinoxalinium, 6,7-dichloro-2-[7-(6,7-dichloro-1,3-dihydro-1,3-dipropyl-2H-imidazo[4,5-b]quinoxalin-2-ylidene)-1,3,5-heptatrien-1-yl]-1,3-dipropyl-, hexafluorophosphate(1-) (1:1) (CA INDEX NAME)

CM 1

CRN 666837-33-8
 CMF C37 H39 Cl4 N8

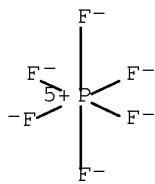


PAGE 1-B



CM 2

CRN 16919-18-9
 CMF F6 P
 CCI CCS



L35 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2004:117562 CAPLUS Full-text
 DOCUMENT NUMBER: 140:189907
 TITLE: Cellulose acylate films, their manufacture, optical films, liquid-crystal displays, and silver halide photographic materials
 INVENTOR(S): Kato, Eichi
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 61 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004042381	A	20040212	JP 2002-201749	20020710
PRIORITY APPLN. INFO.:			JP 2002-201749	20020710

OTHER SOURCE(S): MARPAT 140:189907
 AB The films are manufactured by (1) applying cellulose acylate compns. containing polymerizable monomers, photopolymn. initiators, and spectral sensitizers Ar1R3C:CR2C(:X)R1 [R1-R3 = H, monovalent nonmetal atomic group; R1-R3 may form acidic nucleus of dyes; Ar1 = aryl group having OR4, NR5, and/or SR6 at o- or p-position; X = O, S, :NR7; R4-R7 = (un)substituted alkyl or aryl] and (2) irradiating with UV light. The photog. materials have supports of the films with thickness 30-250 μ m. The films show high bending and tear strength and good storage stability.

IT 658059-85-9P 658059-89-3P 658059-91-7P
 658059-94-0P 658059-97-3P 658060-03-8P
 658060-09-4P 658060-11-8P 658060-13-0P
 658060-14-1P 658060-16-3P 658060-18-5P
 658060-20-9P 658060-21-0P 658060-23-2P
 658060-24-3P 658060-26-5P 658060-30-1P
 658060-36-7P 658060-40-3P 658060-43-6P
 658063-12-8P 658063-14-0P

RL: DEV (Device component use); IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (manufacture of cellulose acylate films with high tear strength for LCD and photog. materials)

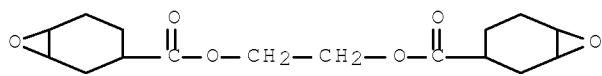
RN 658059-85-9 CAPLUS

CN 7-Oxabicyclo[4.1.0]heptane-3-carboxylic acid, 1,1'-(1,2-ethanediyl) ester, polymer with 1,4-bis[(ethoxyloxy)methyl]cyclohexane (CA INDEX NAME)

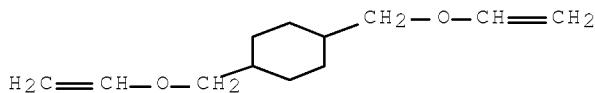
CM 1

CRN 72046-03-8

CMF C16 H22 O6



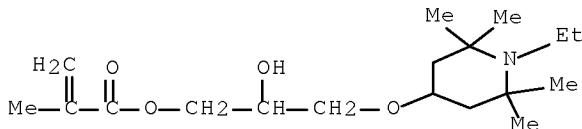
CM 2

CRN 17351-75-6
CMF C12 H20 O2

RN 658059-89-3 CAPLUS

CN Butanedioic acid, 5-[4-(5-chloro-2H-benzotriazol-2-yl)-5-hydroxy-2-methylphenoxy]-2-hydroxypentyl 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with cyclooctylmethyl 2-propenoate, 3-[(1-ethyl-2,2,6,6-tetramethyl-4-piperidinyl)oxy]-2-hydroxypropyl 2-methyl-2-propenoate and 2-[[3-hydroxy-2,2-bis[[1-oxo-2-propenyl]oxy]methyl]propoxy]methyl]-2-[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate (9CI) (CA INDEX NAME)

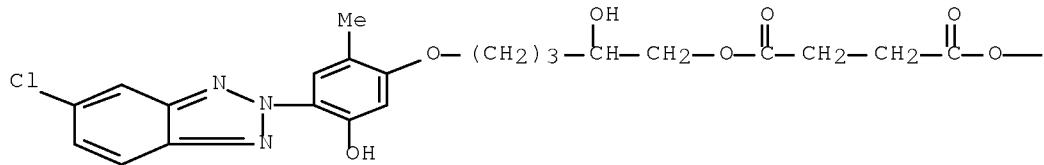
CM 1

CRN 658059-88-2
CMF C18 H33 N O4

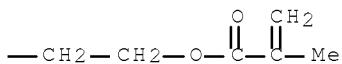
CM 2

CRN 658059-87-1
CMF C28 H32 Cl N3 O9

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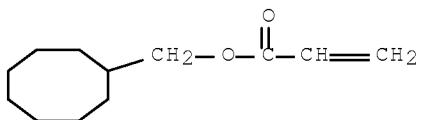
PAGE 1-B



CM 3

CRN 654072-00-1

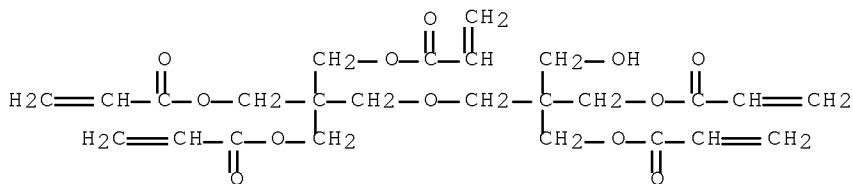
CMF C12 H20 O2



CM 4

CRN 60506-81-2

CMF C25 H32 O12

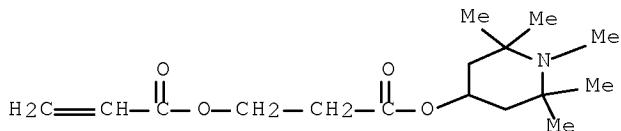


RN 658059-91-7 CAPLUS

CN 2-Propenoic acid, 2-[(3-hydroxy-2,2-bis[(1-oxo-2-propenyl)oxy]methyl)propoxy]methyl-2-[(1-oxo-2-propenyl)oxy]methyl-1,3-propanediyl ester, polymer with 3-(4-benzoyl-3-hydroxyphenoxy)-2-hydroxypropyl 2-propenoate, cyclooctylmethyl 2-propenoate and 3-oxo-3-[(1,2,2,6,6-pentamethyl-4-piperidinyl)oxy]propyl 2-propenoate (9CI) (CA INDEX NAME)

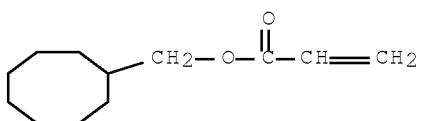
CM 1

CRN 658059-90-6
CMF C16 H27 N 04



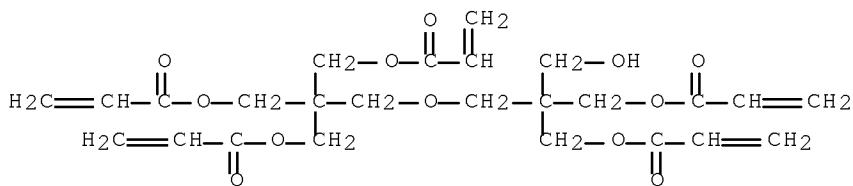
CM 2

CRN 654072-00-1
CMF C12 H20 O2



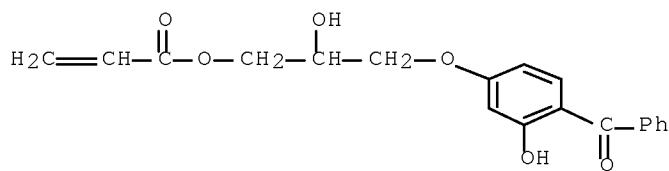
CM 3

CRN 60506-81-2
CMF C25 H32 012



CM 4

CRN 1843-07-8
CMF C19 H18 06



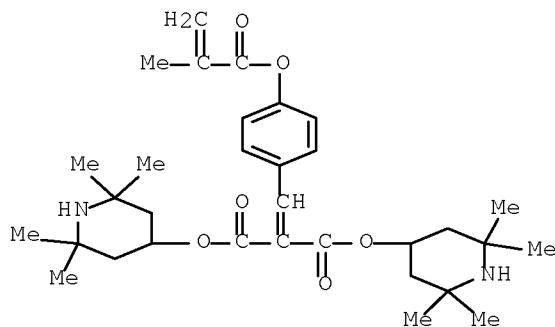
RN 658059-94-0 CAPLUS

CN Propanedioic acid, [4-[(2-methyl-1-oxo-2-propenyl)oxy]phenyl]methyleno]-, bis(2,2,6,6-tetramethyl-4-piperidinyl) ester, polymer with cyclooctylmethyl 2-propenoate, 2-[[3-hydroxy-2,2-bis[[1-oxo-2-propenyl)oxy]methyl]propoxy]methyl-2-[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate and 3-[4-hydroxy-3-(5-methyl-2H-benzotriazol-2-yl)phenyl]propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 658059-93-9

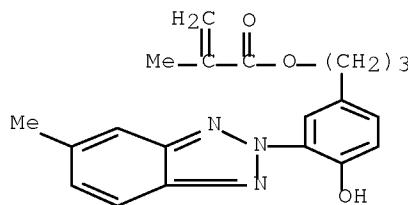
CMF C32 H46 N2 O6



CM 2

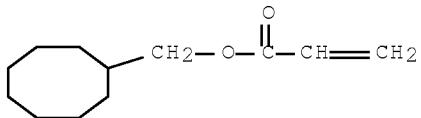
CRN 658059-92-8

CMF C20 H21 N3 O3



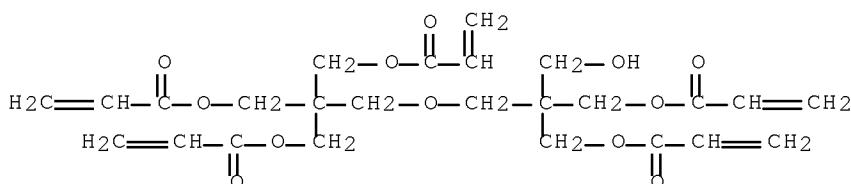
CM 3

CRN 654072-00-1
CMF C12 H20 O2



CM 4

CRN 60506-81-2
CMF C25 H32 012

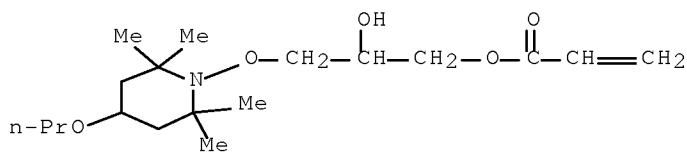


RN 658059-97-3 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[2-[3-(1,1-dimethylethyl)-2-hydroxy-5-methylphenyl]-7-hydroxy-2H-benzotriazol-5-yl]ethyl ester, polymer with cyclooctylmethyl 2-propenoate, 2-[[3-hydroxy-2,2-bis[[(1-oxo-2-propenyl)oxy]methyl]propoxy]methyl]-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate and 2-hydroxy-3-[(2,2,6,6-tetramethyl-4-propoxy-1-piperidinyl)oxy]propyl 2-propenoate (9CI) (CA INDEX NAME)

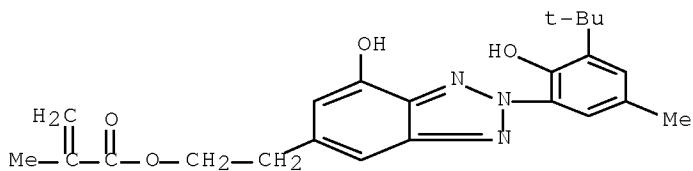
CM 1

CRN 658059-96-2
CMF C18 H33 N 05

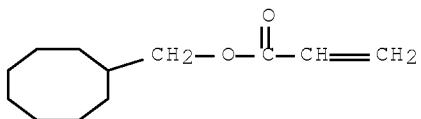


CM 2

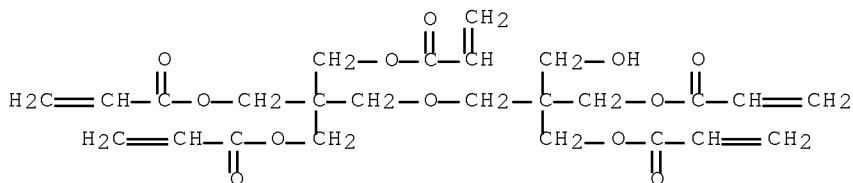
CRN 658059-95-1
CMF C23 H27 N3 04



CM 3

CRN 654072-00-1
CMF C12 H20 O2

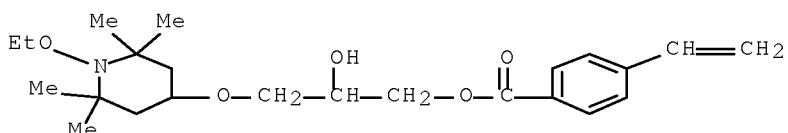
CM 4

CRN 60506-81-2
CMF C25 H32 O12

RN 658060-03-8 CAPLUS
 CN Benzoic acid, 4-ethenyl-, 3-[(1-ethoxy-2,2,6,6-tetramethyl-4-piperidinyl)oxy]-2-hydroxypropyl ester, polymer with cyclooctylmethyl 2-propenoate, 2-(1,1-dimethylethyl)-4-[3-[(4-ethenylphenyl)methoxy]-2-hydroxypropoxy]-6-(5-methoxy-2H-benzotriazol-2-yl)phenol and 2-[(3-hydroxy-2,2-bis[(1-oxo-2-propenyl)oxy]methyl]propoxy]methyl]-2-[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate (9CI) (CA INDEX NAME)

CM 1

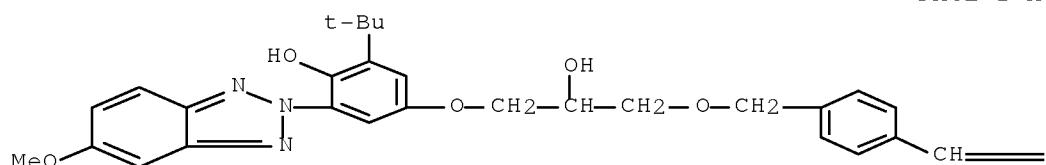
CRN 658060-02-7
CMF C23 H35 N 05



CM 2

CRN 658060-01-6
CMF C29 H33 N3 05

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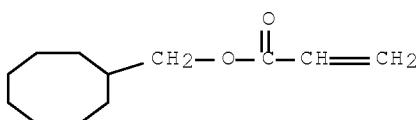


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=CH₂

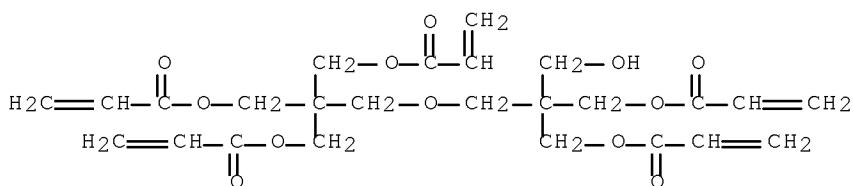
CM 3

CRN 654072-00-1
CMF C12 H20 O2



CM 4

CRN 60506-81-2
CMF C25 H32 012



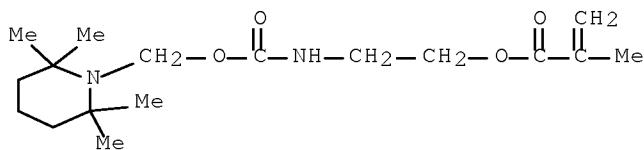
RN 658060-09-4 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[[[(2,2,6,6-tetramethyl-1-piperidinyl)methoxy]carbonyl]amino]ethyl ester, polymer with 3-[4-[4,6-bis(4-methylphenyl)-1,3,5-triazin-2-yl]-3-hydroxyphenoxy]-3-oxopropyl 2-propenoate, cyclooctylmethyl 2-propenoate and 2-[3-hydroxy-2,2-bis[(1-oxo-2-propenyl)oxy]methyl]propoxy]methyl]-2-[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 658060-08-3

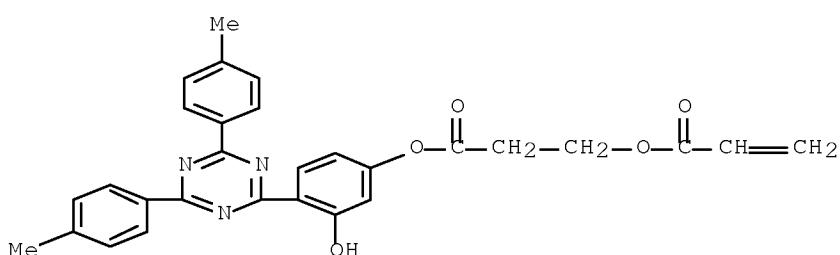
CMF C17 H30 N2 O4



CM 2

CRN 658060-07-2

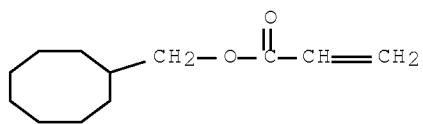
CMF C29 H25 N3 O5



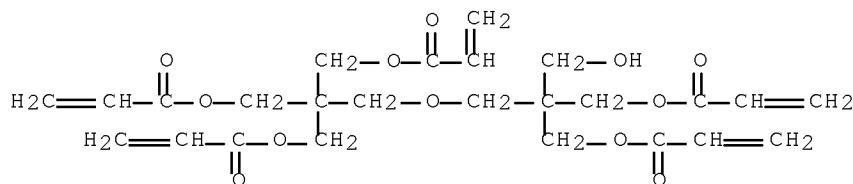
CM 3

CRN 654072-00-1

CMF C12 H20 O2



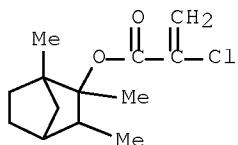
CM 4

CRN 60506-81-2
CMF C25 H32 O12

RN 658060-11-8 CAPLUS

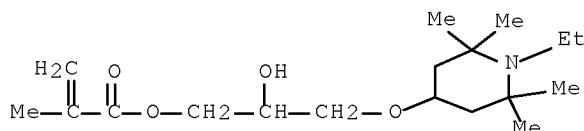
CN Butanedioic acid, 5-[4-(5-chloro-2H-benzotriazol-2-yl)-5-hydroxy-2-methylphenoxy]-2-hydroxypentyl 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with 3-[(1-ethyl-2,2,6,6-tetramethyl-4-piperidinyl)oxy]-2-hydroxypropyl 2-methyl-2-propenoate and 1,2,3-trimethylbicyclo[2.2.1]hept-2-yl 2-chloro-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 658060-10-7
CMF C13 H19 Cl O2

CM 2

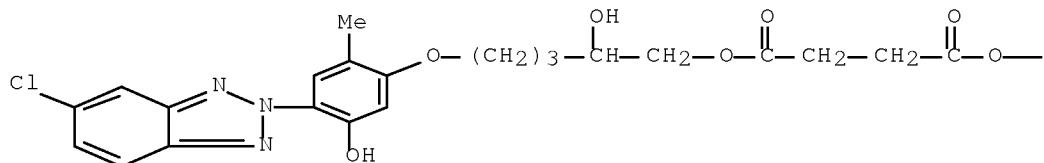
CRN 658059-88-2
CMF C18 H33 N O4



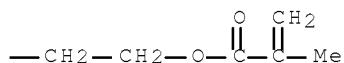
CM 3

CRN 658059-87-1
CMF C28 H32 Cl N3 O9

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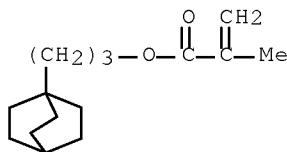
PAGE 1-B



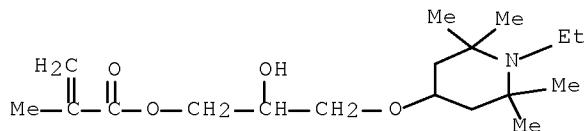
RN 658060-13-0 CAPLUS

CN Butanedioic acid, 5-[4-(5-chloro-2H-benzotriazol-2-yl)-5-hydroxy-2-methylphenoxy]-2-hydroxypentyl 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with 3-bicyclo[2.2.2]oct-1-ylpropyl 2-methyl-2-propenoate, 2-ethyl-2-[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate and 3-[(1-ethyl-2,2,6,6-tetramethyl-4-piperidinyl)oxy]-2-hydroxypropyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

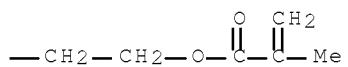
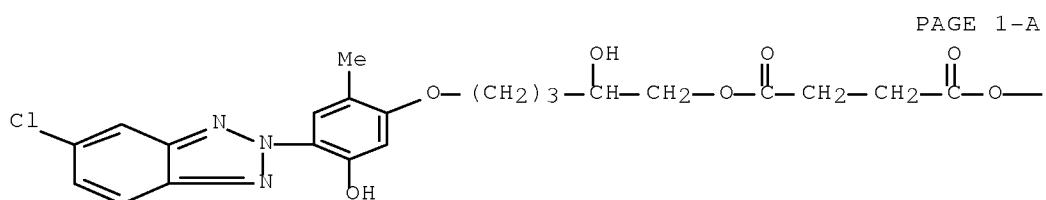
CM 1

CRN 658060-12-9
CMF C15 H24 O2

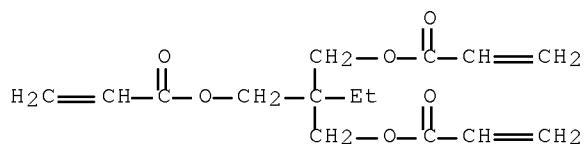
CM 2

CRN 658059-88-2
CMF C18 H33 N 04

CM 3

CRN 658059-87-1
CMF C28 H32 Cl N3 O9

CM 4

CRN 15625-89-5
CMF C15 H20 O6

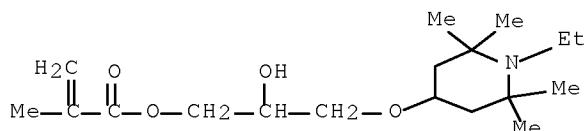
RN 658060-14-1 CAPLUS

CN Butanedioic acid, 5-[4-(5-chloro-2H-benzotriazol-2-yl)-5-hydroxy-2-methylphenoxy]-2-hydroxypentyl 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with ethenyl cyclohexaneacetate, ethenyl 2-methyl-2-propenoate and 3-[(1-ethyl-2,2,6,6-tetramethyl-4-piperidinyl)oxy]-2-hydroxypropyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 658059-88-2

CMF C18 H33 N 04

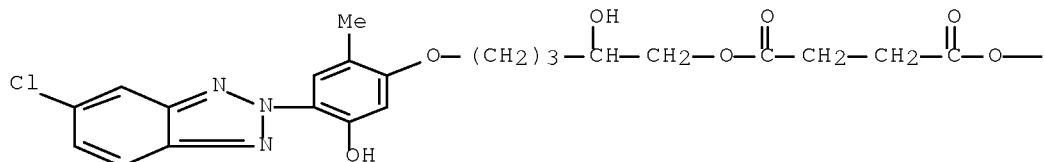


CM 2

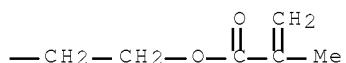
CRN 658059-87-1

CMF C28 H32 Cl N3 O9

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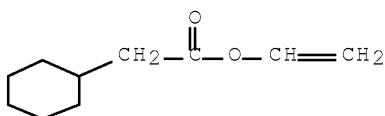
PAGE 1-B



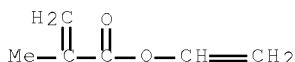
CM 3

CRN 46116-96-5

CMF C10 H16 O2



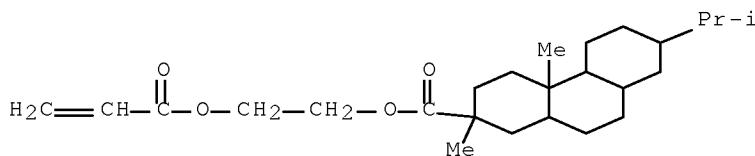
CM 4

CRN 4245-37-8
CMF C6 H8 O2

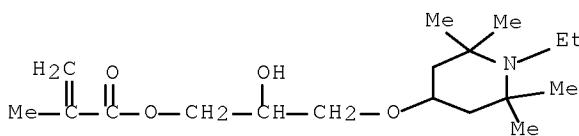
RN 658060-16-3 CAPLUS

CN Butanedioic acid, 5-[4-(5-chloro-2H-benzotriazol-2-yl)-5-hydroxy-2-methylphenoxy]-2-hydroxypentyl 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with 3-[(1-ethyl-2,2,6,6-tetramethyl-4-piperidinyl)oxy]-2-hydroxypropyl 2-methyl-2-propenoate and 2-[(1-oxo-2-propenyl)oxy]ethyl tetradecahydro-2,4a-dimethyl-7-(1-methylethyl)-2-phenanthrenecarboxylate (9CI) (CA INDEX NAME)

CM 1

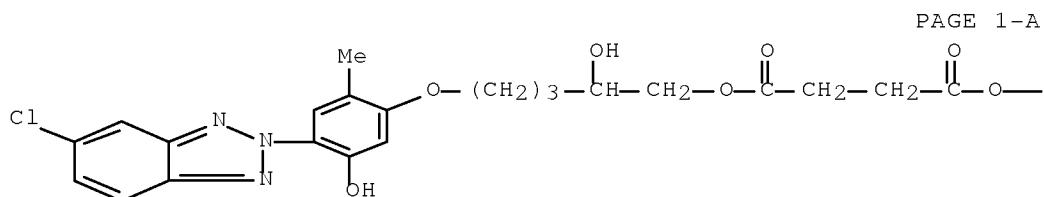
CRN 658060-15-2
CMF C25 H40 O4

CM 2

CRN 658059-88-2
CMF C18 H33 N O4

CM 3

CRN 658059-87-1
 CMF C28 H32 Cl N3 O9

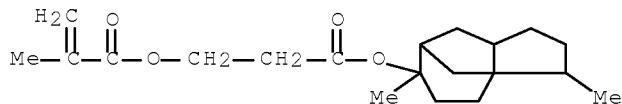


RN 658060-18-5 CAPLUS

CN Butanedioic acid, 5-[4-(5-chloro-2H-benzotriazol-2-yl)-5-hydroxy-2-methylphenoxy]-2-hydroxypentyl 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with 3-[(1-ethyl-2,2,6,6-tetramethyl-4-piperidinyl)oxy]-2-hydroxypropyl 2-methyl-2-propenoate and 3-[(octahydro-3,6-dimethyl-1H-3a,7-methanoazulen-6-yl)oxy]-3-oxopropyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

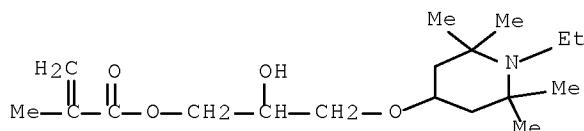
CM 1

CRN 658060-17-4
 CMF C20 H30 O4



CM 2

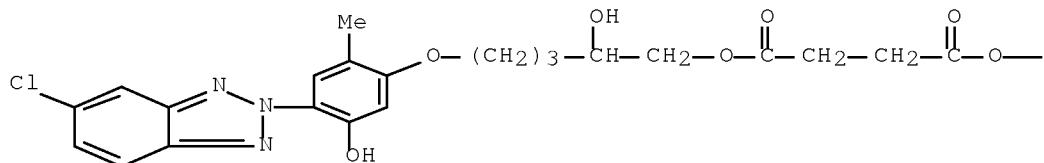
CRN 658059-88-2
 CMF C18 H33 N O4



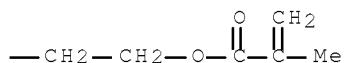
CM 3

CRN 658059-87-1
CMF C28 H32 Cl N3 O9

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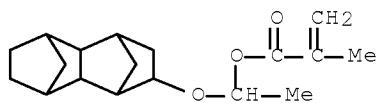


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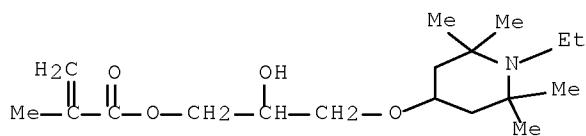
RN 658060-20-9 CAPLUS
 CN Butanedioic acid, 5-[4-(5-chloro-2H-benzotriazol-2-yl)-5-hydroxy-2-methylphenoxy]-2-hydroxypentyl 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with 1-[(decahydro-1,4:5,8-dimethanonaphthalen-2-yl)oxy]ethyl 2-methyl-2-propenoate and 3-[(1-ethyl-2,2,6,6-tetramethyl-4-piperidinyl)oxy]-2-hydroxypropyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 658060-19-6
CMF C18 H26 O3

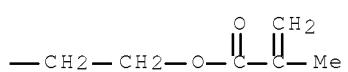
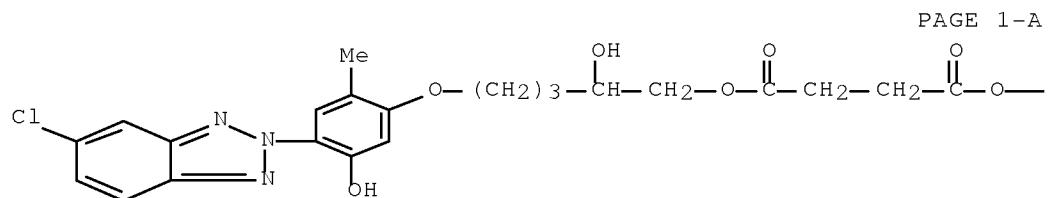
CM 2

CRN 658059-88-2
 CMF C18 H33 N 04



CM 3

CRN 658059-87-1
 CMF C28 H32 Cl N3 O9

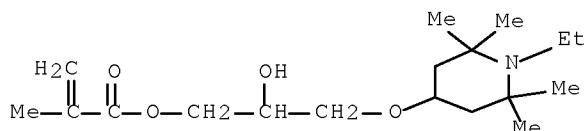


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RN 658060-21-0 CAPLUS
 CN Butanedioic acid, 5-[4-(5-chloro-2H-benzotriazol-2-yl)-5-hydroxy-2-methylphenoxy]-2-hydroxypentyl 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with ethenylbenzene, (ethenylloxy)cyclohexane and 3-[(1-ethyl-2,2,6,6-tetramethyl-4-piperidinyl)oxy]-2-hydroxypropyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

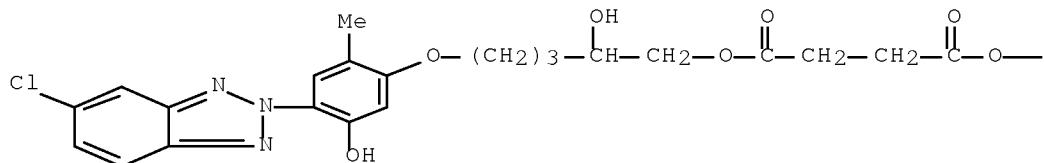
CRN 658059-88-2
 CMF C18 H33 N 04



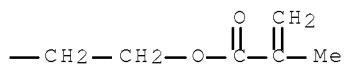
CM 2

CRN 658059-87-1
CMF C28 H32 Cl N3 O9

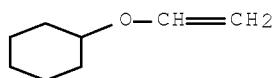
PAGE 1-A



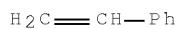
PAGE 1-B



CM 3

CRN 2182-55-0
CMF C8 H14 O

CM 4

CRN 100-42-5
CMF C8 H8

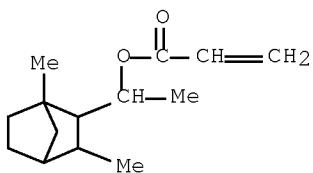
RN 658060-23-2 CAPLUS

CN Butanedioic acid, 5-[4-(5-chloro-2H-benzotriazol-2-yl)-5-hydroxy-2-methylphenoxy]-2-hydroxypentyl 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with 1-(1,3-dimethylbicyclo[2.2.1]hept-2-yl)ethyl 2-propenoate and 3-[(1-ethyl-2,2,6,6-tetramethyl-4-piperidinyl)oxy]-2-hydroxypropyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 658060-22-1

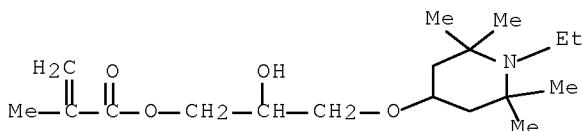
CMF C14 H22 O2



CM 2

CRN 658059-88-2

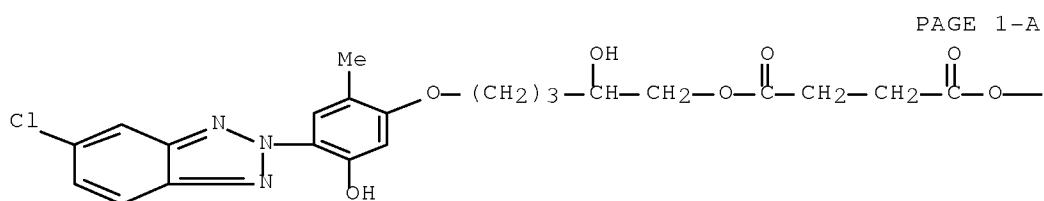
CMF C18 H33 N O4



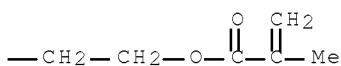
CM 3

CRN 658059-87-1

CMF C28 H32 Cl N3 O9



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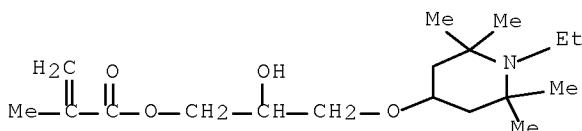
RN 658060-24-3 CAPLUS

CN Butanedioic acid, 5-[4-(5-chloro-2H-benzotriazol-2-yl)-5-hydroxy-2-methylphenoxy]-2-hydroxypentyl 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with 2-cyclohexylethyl 2-methyl-2-propenoate, 3-[(1-ethyl-2,2,6,6-tetramethyl-4-piperidinyl)oxy]-2-hydroxypropyl 2-methyl-2-propenoate and tricyclo[3.3.1.13,7]dec-1-ylmethyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 658059-88-2

CMF C18 H33 N O4

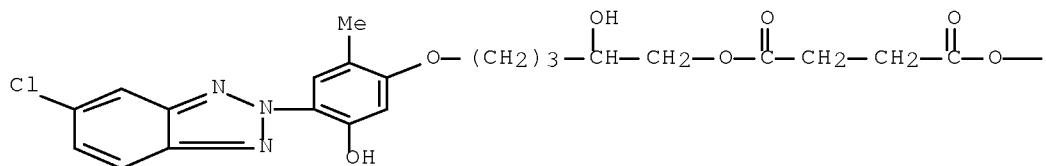


CM 2

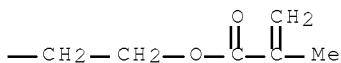
CRN 658059-87-1

CMF C28 H32 Cl N3 O9

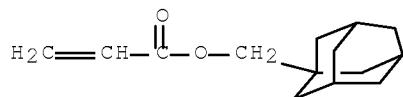
PAGE 1-A



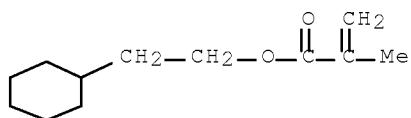
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CM 3

CRN 121601-91-0
CMF C14 H20 O2

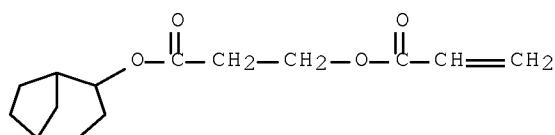
CM 4

CRN 17223-21-1
CMF C12 H20 O2

RN 658060-26-5 CAPLUS

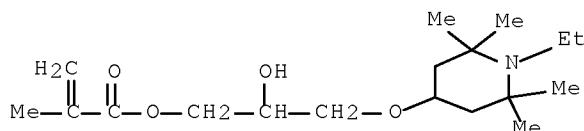
CN Butanedioic acid, 5-[4-(5-chloro-2H-benzotriazol-2-yl)-5-hydroxy-2-methylphenoxy]-2-hydroxypentyl 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with 3-(bicyclo[3.2.1]oct-2-yloxy)-3-oxopropyl 2-propenoate, dodecyl 2-methyl-2-propenoate and 3-[(1-ethyl-2,2,6,6-tetramethyl-4-piperidinyl)oxy]-2-hydroxypropyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 658060-25-4
CMF C14 H20 O4

CM 2

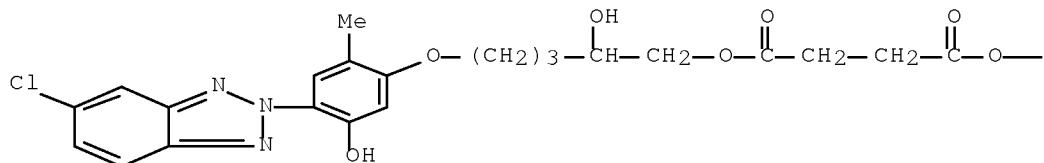
CRN 658059-88-2
CMF C18 H33 N O4



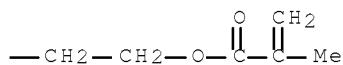
CM 3

CRN 658059-87-1
CMF C28 H32 Cl N3 O9

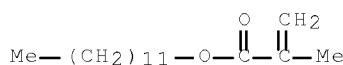
PAGE 1-A



PAGE 1-B



CM 4

CRN 142-90-5
CMF C16 H30 O2

RN 658060-30-1 CAPLUS

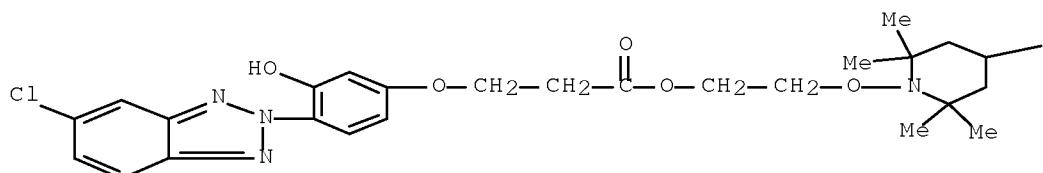
CN 7-Oxabicyclo[4.1.0]heptane-3-acetic acid,
5-(7-oxabicyclo[4.1.0]hept-3-ylmethoxy)-5-oxopentyl ester, polymer with
3-[[1-[2-[3-[4-(5-chloro-2H-benzotriazol-2-yl)-3-hydroxyphenoxy]-1-
oxopropoxy]ethoxy]-2,2,6,6-tetramethyl-4-piperidinyl]oxy]-2-hydroxypropyl
2-methyl-2-propenoate and 2-(7-oxabicyclo[4.1.0]hept-3-yl)ethyl
2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

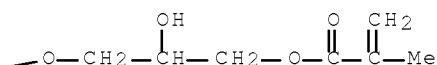
CRN 658060-29-8

CMF C33 H43 Cl N4 O9

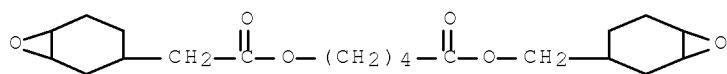
PAGE 1-A



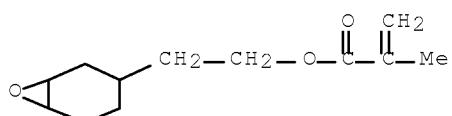
PAGE 1-B



CM 2

CRN 658060-28-7
CMF C20 H30 O6

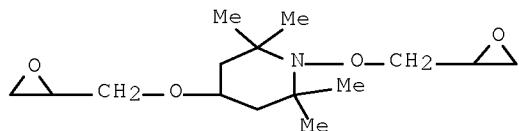
CM 3

CRN 59620-20-1
CMF C12 H18 O3

RN 658060-36-7 CAPLUS
 CN 2H-Benzotriazole-5-propanoic acid, 2-[2-hydroxy-3-(1-methylethyl)phenyl]-, 2-(ethenyloxy)ethyl ester, polymer with 2,2'-(1-methylethylidene)bis(4,1-cyclohexanediylloxymethylene)]bis[oxirane], 2,2,6,6-tetramethyl-1,4-bis(oxiranylmethoxy)piperidine and 1,3,5-tris[2-(ethenyloxy)ethoxy]benzene (9CI) (CA INDEX NAME)

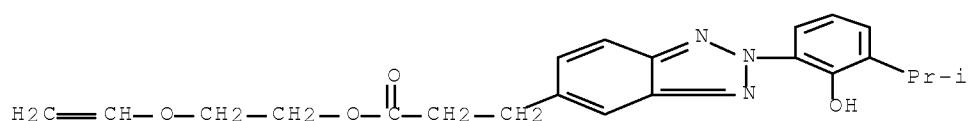
CM 1

CRN 658060-35-6
CMF C15 H27 N 04



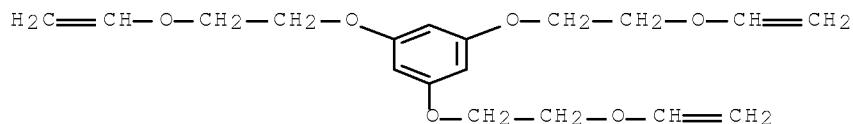
CM 2

CRN 658060-34-5
CMF C22 H25 N3 O4



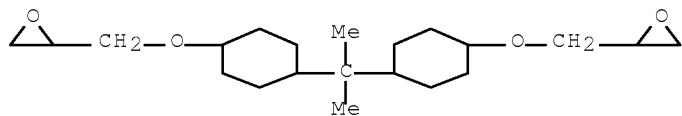
CM 3

CRN 142248-13-3
CMF C18 H24 06



CM 4

CRN 13410-58-7
CMF C21 H36 04



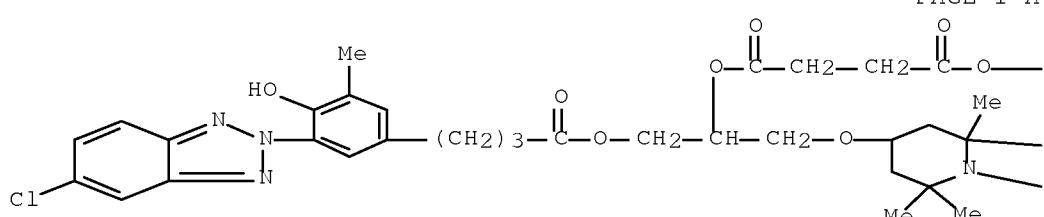
RN 658060-40-3 CAPLUS

CN Cyclohexanaminium, N,N,N-trimethyl-4-[(1-oxo-2-propenyl)oxy]-, hexafluorophosphate(1-), polymer with 1-[[4-[3-(5-chloro-2H-benzotriazol-2-yl)-4-hydroxy-5-methylphenyl]-1-oxobutoxy]methyl]-2-[(1,2,2,6,6-pentamethyl-4-piperidinyl)oxy]ethyl 2-[(1-oxo-2-propenyl)oxy]ethyl butanedioate and phenylmethyl 2-propenoate (9CI) (CA INDEX NAME)

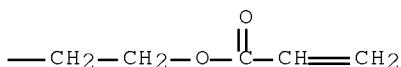
CM 1

CRN 658060-39-0

CMF C39 H51 C1 N4 O10



PAGE 1-B



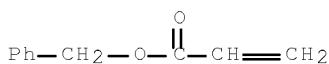
— Me

— Me

CM 2

CRN 2495-35-4

CMF C10 H10 O2

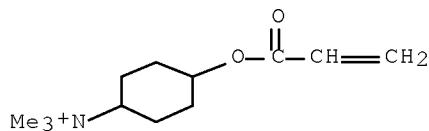


CM 3

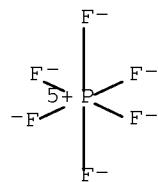
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CMF C12 H22 N O2 . F6 P

CM 4

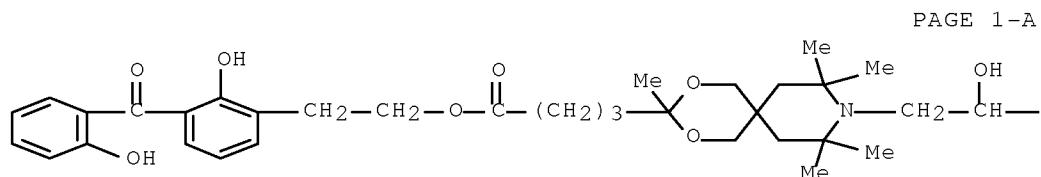
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CMF C12 H22 N O2

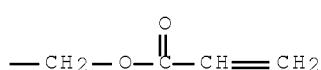
CM 5

CRN 16919-18-9
CMF F6 P
CCI CCS

RN 658060-43-6 CAPLUS
 CN Ethanaminium, N,N,N-triethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, salt with 4-methylbenzenesulfonic acid (1:1), polymer with cyclohexylmethyl 2-propenoate and 2-[2-hydroxy-3-(2-hydroxybenzoyl)phenyl]ethyl 9-[2-hydroxy-3-[(1-oxo-2-propenyl)oxy]propyl]-3,8,8,10,10-pentamethyl-2,4-dioxa-9-azaspiro[5.5]undecane-3-butanoate (9CI) (CA INDEX NAME)

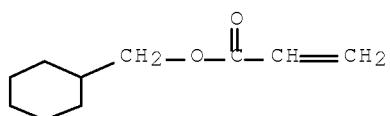
CM 1

CRN 658060-42-5
CMF C38 H51 N O10



CM 2

CRN 16868-15-8
 CMF C10 H16 O2

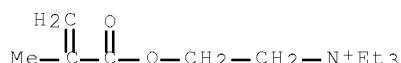


CM 3

CRN 128611-70-1
 CMF C12 H24 N O2 . C7 H7 O3 S

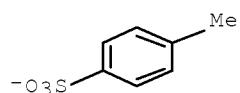
CM 4

CRN 48067-10-3
 CMF C12 H24 N O2



CM 5

CRN 16722-51-3
 CMF C7 H7 O3 S



RN 658063-12-8 CAPLUS

CN Butanedioic acid, 5-[4-(5-chloro-2H-benzotriazol-2-yl)-5-hydroxy-2-methylphenoxy]-2-hydroxypentyl 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with 2,2-bis[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl

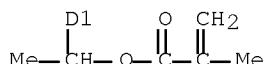
di-2-propenoate, 3-[(1-ethyl-2,2,6,6-tetramethyl-4-piperidinyl)oxy]-2-hydroxypropyl 2-methyl-2-propenoate and 1-tricyclo[3.3.1.13,7]decylethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 658063-11-7

CMF C16 H24 O2

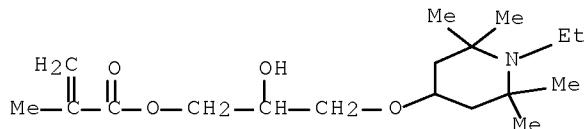
CCI IDS



CM 2

CRN 658059-88-2

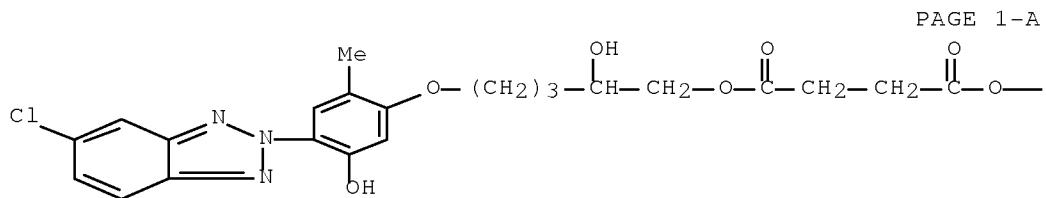
CMF C18 H33 N O4

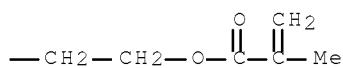


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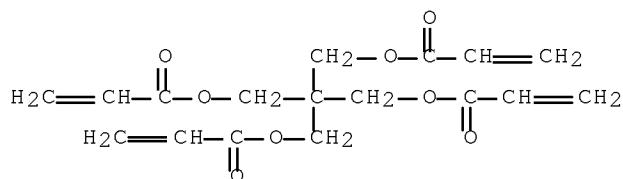
CRN 658059-87-1

CMF C28 H32 Cl N3 O9



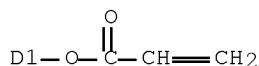
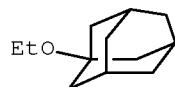


CM 4

CRN 4986-89-4
CMF C17 H20 O8

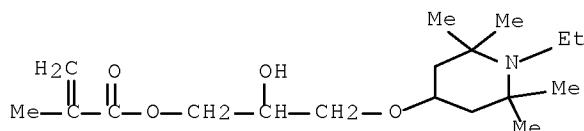
RN 658063-14-0 CAPLUS
 CN Butanedioic acid, 5-[4-(5-chloro-2H-benzotriazol-2-yl)-5-hydroxy-2-methylphenoxy]-2-hydroxypentyl 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with 1-ethoxytricyclo[3.3.1.13,7]decyl 2-propenoate, 3-[(1-ethyl-2,2,6,6-tetramethyl-4-piperidinyl)oxy]-2-hydroxypropyl 2-methyl-2-propenoate and hexyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 658063-13-9
CMF C15 H22 O3
CCI IDS

CM 2

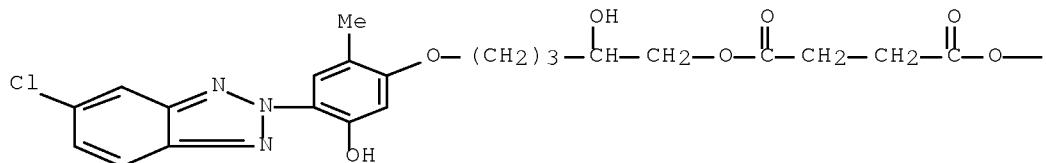
CRN 658059-88-2
CMF C18 H33 N O4



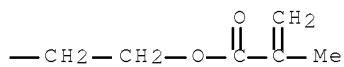
CM 3

CRN 658059-87-1
CMF C28 H32 Cl N3 O9

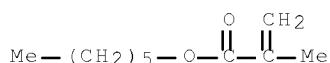
PAGE 1-A



PAGE 1-B



CM 4

CRN 142-09-6
CMF C10 H18 O2

L35 ANSWER 9 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2003:855869 CAPLUS Full-text
 DOCUMENT NUMBER: 139:353387
 TITLE: Coated multilayer abrasive articles
 INVENTOR(S): Koehnle, Gregory A.; Woo, Edward J.
 PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA
 SOURCE: PCT Int. Appl., 38 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003089194	A1	20031030	WO 2003-US7395	20030307
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 20030200701	A1	20031030	US 2002-125938	20020419
US 6773474	B2	20040810		
AU 2003220160	A1	20031103	AU 2003-220160	20030307
EP 1497079	A1	20050119	EP 2003-716455	20030307
EP 1497079	B1	20080521		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003009072	A	20050222	BR 2003-9072	20030307
JP 2005523169	T	20050804	JP 2003-585934	20030307
AT 396011	T	20080615	AT 2003-716455	20030307
PRIORITY APPLN. INFO.:			US 2002-125938	A 20020419
			WO 2003-US7395	W 20030307

AB Coated abrasive articles comprise a backing and an abrasive layer, and optionally at least one of a back-size layer, tie layer, super-size layer, pre-size layer, or saturant. The coated abrasive article comprises a reaction product of components comprising: polyfunctional acrylate; polyfunctional cationically polymerizable material; free radical photoinitiator; triarylsulfonium salt having the formula (I), wherein R1, R2 and R3 independently represent an, optionally substituted, aromatic group having from 4 to 20 carbon atoms, and Y- represents a non-interfering anion; and quaternary ammonium salt having the formula (II), wherein X- is a non-interfering anion.

IT 25068-38-6, Epon 1001F

RL: TEM (Technical or engineered material use); USES (Uses)
(DER 331, Epon 1001F, coating component; coated multilayer abrasive articles)

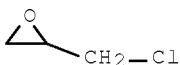
RN 25068-38-6 CAPLUS

CN Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane (CA INDEX NAME)

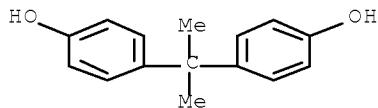
CM 1

CRN 106-89-8

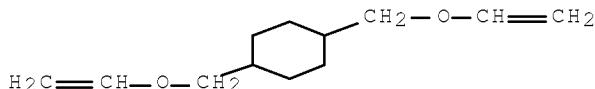
CMF C3 H5 Cl O



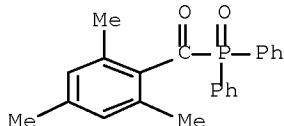
CM 2

CRN 80-05-7
CMF C15 H16 O2

IT 17351-75-6, Rapi-Cure CHVE
 RL: MOA (Modifier or additive use); USES (Uses)
 (coating component; coated multilayer abrasive articles)
 RN 17351-75-6 CAPLUS
 CN Cyclohexane, 1,4-bis[(ethenyloxy)methyl]- (CA INDEX NAME)



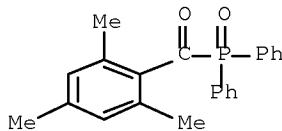
IT 75980-60-8, Lucirin TPO 189146-15-4, Darocur 4265
 RL: TEM (Technical or engineered material use); USES (Uses)
 (coating component; coated multilayer abrasive articles)
 RN 75980-60-8 CAPLUS
 CN Methanone, (diphenylphosphinyl)(2,4,6-trimethylphenyl)- (CA INDEX NAME)



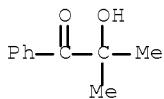
RN 189146-15-4 CAPLUS
 CN 1-Propanone, 2-hydroxy-2-methyl-1-phenyl-, mixt. with
 (diphenylphosphinyl)(2,4,6-trimethylphenyl)methanone (CA INDEX NAME)

CM 1

CRN 75980-60-8
CMF C22 H21 O2 P



CM 2

CRN 7473-98-5
CMF C10 H12 O2

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L35 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2003:793688 CAPLUS Full-text
 DOCUMENT NUMBER: 139:277870
 TITLE: Thermosetting poly(thio)ether composition and its use as materials for electronic device
 INVENTOR(S): Kato, Ikuhiro; Nakata, Isao; Nakazato, Katsumi; Saito, Satoshi
 PATENT ASSIGNEE(S): NOF Corporation, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003286403	A	20031010	JP 2002-92610	20020328
JP 4110813	B2	20080702		

PRIORITY APPLN. INFO.: JP 2002-92610 20020328
 AB The composition contains a poly(thio)ether with mol. weight 500-100,000 involving repeating unit (OR1OCMeHYR2YCMcH) (R1 = divalent phenolic compound residue; R2 = C1-25 divalent organic group; Y = O, S) and a compound substituted with ≥2 OH-reactive functional groups. Alternatively, the composition contains 5-95 parts of the poly(thio)ether, 5-95 parts of the OH-reactive compound, and 0.01-50 parts of a basic catalyst. The composition, showing enhanced storage stability, is cured to give an electronic device material, e.g., photoresist, color filter, photomask, solder paste, etc. Thus, 25.2 parts catechol and 44.8 parts cyclohexanedimethanol divinyl ether were polymerized in Me iso-Bu ketone in the presence of a phosphate catalyst (AP-8) to give a polyether, 42.2 parts of which was mixed with 57.8 parts epoxy resin (Epikote 157) and 1.0 part 2-undecylimidazole (Curezol C 11Z) to give the

composition Then, the composition was applied on an Al plate, prebaked at 80° for 30 min, and postbaked at 180° for 60 min to give a cured coating showing good resistance to H₂SO₄ and to impact.

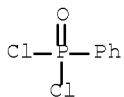
IT 824-72-6, Phenylphosphonyl dichloride
RL: RCT (Reactant); RACT (Reactant or reagent)

(thermosetting poly(thio)ether composition containing hydroxy-reactive compound

containing polymerization catalyst from)

RN 824-72-6 CAPLUS

CN Phosphonic dichloride, P-phenyl- (CA INDEX NAME)



IT 607333-09-5P, Catechol-1,4-cyclohexanedimethanol divinyl ether-Epikote 157 copolymer 607333-10-8P, Catechol-triethylene glycol divinyl ether-Epikote 157 copolymer 607333-12-0P, 1,4-Cyclohexanedimethanol divinyl ether-hydroquinone-Epikote 157 copolymer
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(thermosetting poly(thio)ether composition containing hydroxy-reactive compound

for electronic device material)

RN 607333-09-5 CAPLUS

CN 1,2-Benzenediol, polymer with 1,4-bis[(ethenyloxy)methyl]cyclohexane and Epikote 157 (9CI) (CA INDEX NAME)

CM 1

CRN 177403-04-2

CMF Unspecified

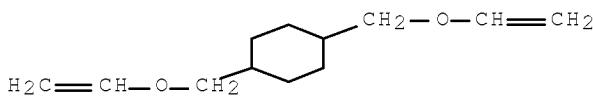
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 17351-75-6

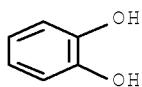
CMF C12 H20 O2



CM 3

CRN 120-80-9

CMF C6 H6 O2



RN 607333-10-8 CAPLUS

CN 1,2-Benzenediol, polymer with Epikote 157 and
3,6,9,12-tetraoxatetradeca-1,13-diene (9CI) (CA INDEX NAME)

CM 1

CRN 177403-04-2

CMF Unspecified

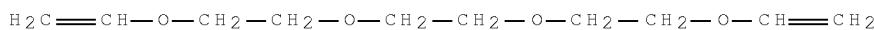
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 765-12-8

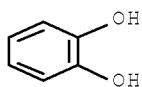
CMF C10 H18 O4



CM 3

CRN 120-80-9

CMF C6 H6 O2



RN 607333-12-0 CAPLUS

CN 1,4-Benzenediol, polymer with 1,4-bis[(ethenyloxy)methyl]cyclohexane and
Epikote 157 (9CI) (CA INDEX NAME)

CM 1

CRN 177403-04-2

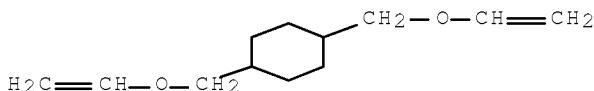
CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

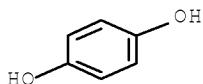
CM 2

CRN 17351-75-6
 CMF C12 H20 O2



CM 3

CRN 123-31-9
 CMF C6 H6 O2



L35 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2002:942794 CAPLUS Full-text
 DOCUMENT NUMBER: 138:14316
 TITLE: Cost-effective performance enhancement of uv cured
 epoxysilicone release agents
 INVENTOR(S): Eckberg, Richard P.
 PATENT ASSIGNEE(S): General Electric Company, USA
 SOURCE: U.S., 13 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6492433	B1	20021210	US 2001-920608	20010801
PRIORITY APPLN. INFO.:			US 2001-920608	20010801

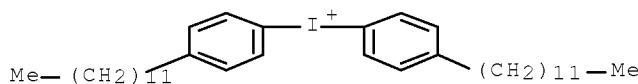
AB An UV- or electron beam-curable silicone release coating composition comprises an epoxy functional silicone polymers, a vinyl ether monomer, an alkylphenol compound, and an effective amount of a bis(alkylphenyl)iodonium salt photocatalyst. Thus, a mixture of UV 9400 epoxy-functional poly(dimethylsiloxane) 100, 4-dodecylphenol 10, n-dodecyl vinyl ether 10, and photocatalyst (a 42% solution of bis(4-dodecylphenyl)iodonium hexafluorophosphate in diacetone alc.) 4 parts was prepared as a clear homogeneous solution and crosslinked to smear- and migration-free release surfaces, compared to an opaque mixture without 4-dodecylphenol and n-dodecyl vinyl ether did not cure.

IT 477602-76-9
 RL: CAT (Catalyst use); TEM (Technical or engineered material use); USES
 (Uses)
 (radiation-curable epoxy-functional polysiloxane release coatings

containing vinyl ethers, alkylphenols and iodonium salt photocatalyst)
 RN 477602-76-9 CAPLUS
 CN Iodonium, bis(4-dodecylphenyl)-, hexafluorophosphate(1-) (1:1) (CA INDEX NAME)

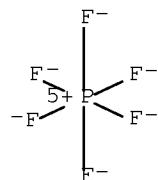
CM 1

CRN 71786-69-1
 CMF C36 H58 I

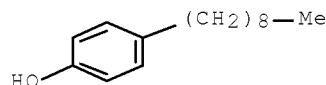


CM 2

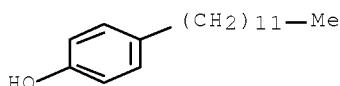
CRN 16919-18-9
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 CCI CCS



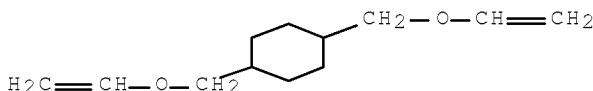
IT 104-40-5, 4-Nonylphenol 104-43-8, 4-Dodecylphenol
 17351-75-6, 1,4-Cyclohexanediol divinyl ether
 RL: TEM (Technical or engineered material use); USES (Uses)
 (radiation-curable epoxy-functional polysiloxane release coatings
 containing vinyl ethers, alkylphenols and iodonium salt photocatalyst)
 RN 104-40-5 CAPLUS
 CN Phenol, 4-nonyl- (CA INDEX NAME)



RN 104-43-8 CAPLUS
 CN Phenol, 4-dodecyl- (CA INDEX NAME)



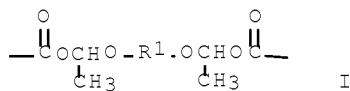
RN 17351-75-6 CAPLUS
 CN Cyclohexane, 1,4-bis[(ethenyl oxy)methyl]- (CA INDEX NAME)



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L35 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1999:583192 CAPLUS Full-text
 DOCUMENT NUMBER: 131:215138
 TITLE: Preparation of polycarboxyl derivatives having solubility and compatibility with curable resins
 INVENTOR(S): Sato, Hiroshi; Ishitoya, Masahiro
 PATENT ASSIGNEE(S): Nippon Oil and Fats Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11246544	A	19990914	JP 1998-125431	19980305
PRIORITY APPLN. INFO.:			JP 1998-125431	19980305
GI				



AB Title polycarboxyl compds. for preparing one-component curable resins is characterized by having ≥ 2 /mol. acid anhydride groups and 1/mol. functional group represented by the formula of I (R1: C1-24 organic group). Thus, a trimellitic anhydride dimer derivative was obtained by reaction of trimellitic anhydride 115.3 with 1,4-cyclohexanediethyl divinyl ether 76.4, cyclohexanone 98.4, and AP-8 (phosphate catalyst) 0.15 part, showing good solubility in solvents such as xylene, Bu acetate, and methylisobutylketone, and compatibility with Epikote 828 resin solution
 IT 12645-31-7

RL: CAT (Catalyst use); USES (Uses)

(AP 8, catalyst; preparation of polycarboxyl derivs. having solubility and compatibility with curable resins)

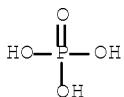
RN 12645-31-7 CAPLUS

CN Phosphoric acid, 2-ethylhexyl ester (CA INDEX NAME)

CM 1

CRN 7664-38-2

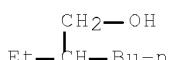
CMF H3 O4 P



CM 2

CRN 104-76-7

CMF C8 H18 O



IT 25068-38-6, Epikote 828

RL: PRP (Properties)

(preparation of polycarboxyl derivs. having solubility and compatibility with

curable resins)

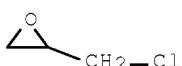
RN 25068-38-6 CAPLUS

CN Phenol, 4,4'-(1-methylethyldene)bis-, polymer with
2-(chloromethyl)oxirane (CA INDEX NAME)

CM 1

CRN 106-89-8

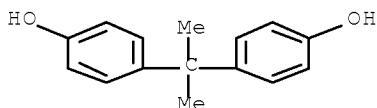
CMF C3 H5 Cl O



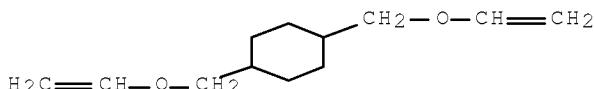
CM 2

CRN 80-05-7

CMF C15 H16 O2



IT 17351-75-6, 1,4-Cyclohexanedimethyl divinyl ether
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of polycarboxyl derivs. having solubility and compatibility
 with
 curable resins)
 RN 17351-75-6 CAPLUS
 CN Cyclohexane, 1,4-bis[(ethenyoxy)methyl]- (CA INDEX NAME)



L35 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1999:565055 CAPLUS Full-text
 DOCUMENT NUMBER: 131:215703
 TITLE: Abrasion-resistant transparent coated moldings and
 production methods therefor
 INVENTOR(S): Shibuya, Takashi; Higuchi, Toshihiko; Kondo, Satoshi;
 Yamamoto, Hiroshi
 PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

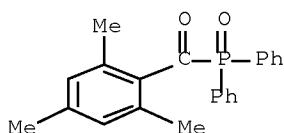
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11240101	A	19990907	JP 1998-45814	19980226
JP 3921785	B2	20070530		

PRIORITY APPLN. INFO.: JP 1998-45814 19980226
 AB Moldings are coated with an inside layer containing cationically polymerizable
 polyfunctional compds. and cation-generating photochem. polymerization
 initiators and an outside layer containing silica-forming compds. Thus, an
 aromatic polycarbonate plate was coated with xylene containing KRM 2199, 4%
 (vs. the resin) SP-150, and 3% 2-(3,5-di-tert-amyl-2-
 hydroxyphenyl)benzotriazole, dried, and irradiated with UV to form a coating,
 coated with L 110 (a perhydropolysilazane solution) containing a catalyst, and
 heated to form a silica coating.

IT 75980-60-0, 2,4,6-Trimethylbenzoyldiphenylphosphine oxide
 RL: CAT (Catalyst use); USES (Uses)
 (abrasion-resistant transparent 2-layer coatings on polycarbonates)

RN 75980-60-8 CAPLUS

CN Methanone, (diphenylphosphinyl)(2,4,6-trimethylphenyl)- (CA INDEX NAME)

IT 151543-64-5^p, Poly(1,4-cyclohexanedimethanol divinyl ether)
242151-12-8^pRL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(abrasion-resistant transparent 2-layer coatings on polycarbonates)

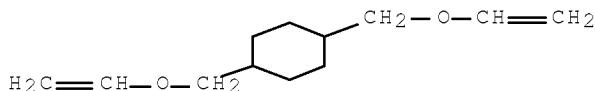
RN 151543-64-5 CAPLUS

CN Cyclohexane, 1,4-bis[(ethenyloxy)methyl]-, homopolymer (CA INDEX NAME)

CM 1

CRN 17351-75-6

CMF C12 H20 O2



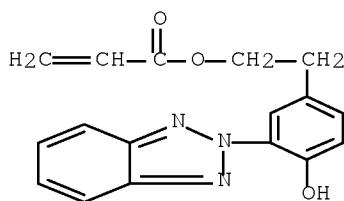
RN 242151-12-8 CAPLUS

CN 2-Propenoic acid, 2-[(3-[(1-oxo-2-propenyl)oxy]-2,2-bis[(1-oxo-2-propenyl)oxy]methyl]propoxy)methyl]-2-[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 2-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]ethyl 2-propenoate, 1,4-bis[(ethenyloxy)methyl]cyclohexane and 1,3,5-tris(6-isocyanatohexyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (9CI) (CA INDEX NAME)

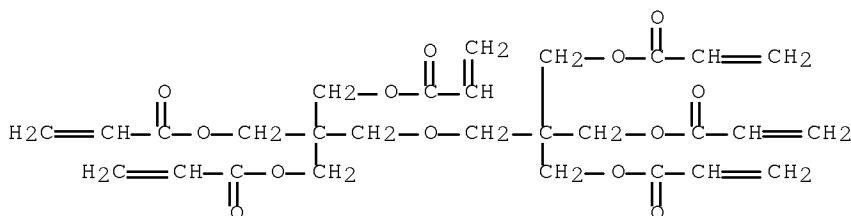
CM 1

CRN 170103-27-2

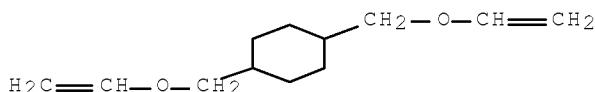
CMF C17 H15 N3 O3



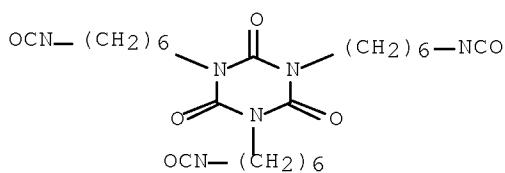
CM 2

CRN 29570-58-9
CMF C28 H34 O13

CM 3

CRN 17351-75-6
CMF C12 H20 O2

CM 4

CRN 3779-63-3
CMF C24 H36 N6 O6

L35 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1999:286018 CAPLUS Full-text
 DOCUMENT NUMBER: 130:325795
 TITLE: Energy radiation curing process for resins containing
 radiation shielding
 INVENTOR(S): Hayashi, Noriya; Hayashi, Shunichi
 PATENT ASSIGNEE(S): Mitsubishi Heavy Industries, Ltd., Japan
 SOURCE: PCT Int. Appl., 71 pp.
 CODEN: PIXXD2

DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9920674	A1	19990429	WO 1998-JP4660	19981015
W: CA, CN, KR, RU, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
JP 11193322	A	19990721	JP 1998-283867	19981006
JP 3950241	B2	20070725		
CA 2275278	A1	19990429	CA 1998-2275278	19981015
CA 2275278	C	20070626		
EP 945475	A1	19990929	EP 1998-947885	19981015
EP 945475	B1	20051228		
R: BE, DE, FR, GB, IT, NL				
RU 2226534	C2	20040410	RU 1999-115748	19981015
CN 100387631	C	20080514	CN 1998-801945	19981015
TW 467924	B	20011211	TW 1998-87117198	19981017
US 6599954	B1	20030729	US 1999-331334	19990617
JP 2005206847	A	20050804	JP 2005-113700	20050411
JP 3944217	B2	20070711		
PRIORITY APPLN. INFO.:			JP 1997-285295	A 19971017
			JP 1998-283867	A 19981006
			WO 1998-JP4660	W 19981015

OTHER SOURCE(S): MARPAT 130:325795

AB Title process, especially for carbon fiber-reinforced plastics, uses ≥2 photoinitiators, wherein the irradiation source generates a first energy of different kind, which cures the resin or generate a second energy to cure the resin. Thus, 3,4-epoxycyclohexylmethyl 3,4-epoxycyclohexanecarboxylate (ERL 4221) 100, a photo-thermal initiator SL 80L 1.75, a cationic photopolymer. catalyst Daicat 11 0.75 parts was mixed in a glass container covered with black paper and irradiated with UV light, and the resin was cured after a few minutes.

IT 32760-80-8, Irgacure 261 75482-18-7, Daicat 11 134508-06-8, Dibenzyl-4-hydroxyphenylsulfonium hexafluoroantimonate
 RL: CAT (Catalyst use); USES (Uses)
 (catalyst; energy radiation curing process for resins containing radiation shielding)

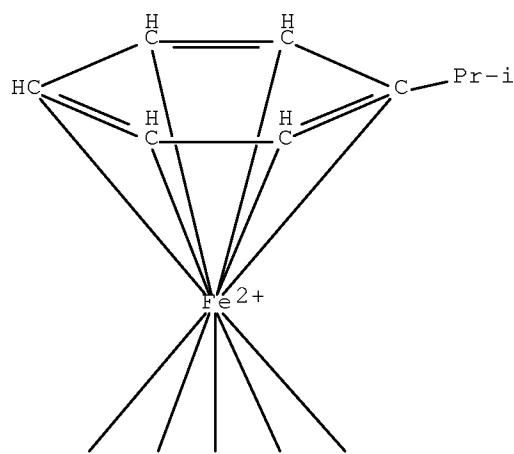
RN 32760-80-8 CAPLUS

CN Iron(1+), (η5-2,4-cyclopentadien-1-yl) [(1,2,3,4,5,6-η)-(1-methylethyl)benzene]-, hexafluorophosphate(1-) (1:1) (CA INDEX NAME)

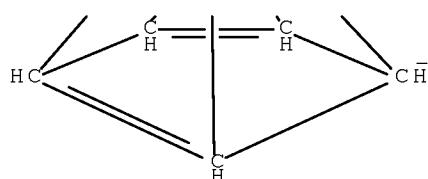
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 CCI CCS

PAGE 1-A



PAGE 2-A

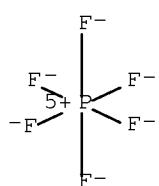


CM 2

CRN 16919-18-9

CMF F6 P

CCI CCS

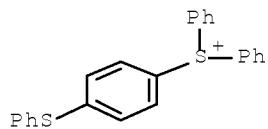


RN 75482-18-7 CAPLUS

CN Sulfonium, diphenyl[4-(phenylthio)phenyl]-, hexafluorophosphate(1-) (1:1)
(CA INDEX NAME)

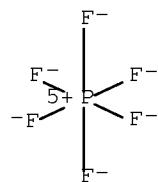
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CRN 47480-44-4
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CM 2

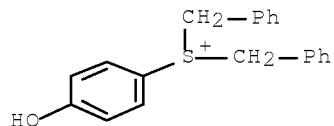
CRN 16919-18-9
 CMF F6 P
 CCI CCS



RN 134508-06-8 CAPLUS
 CN Sulfonium, (4-hydroxyphenyl)bis(phenylmethyl)-,
 (OC-6-11)-hexafluoroantimonate(1-) (9CI) (CA INDEX NAME)

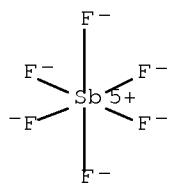
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CRN 134507-87-2
 CMF C20 H19 O S



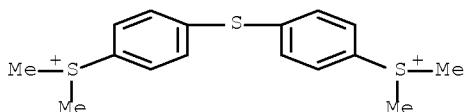
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 CCI CCS

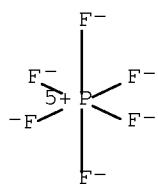


IT 106611-10-3, Bis[4-(dimethylsulfonio)phenyl] sulfide
bis(hexafluorophosphate)
RL: CAT (Catalyst use); USES (Uses)
(energy radiation curing process for resins containing radiation shielding)
RN 106611-10-3 CAPLUS
CN Sulfonium, (thiodi-4,1-phenylene)bis[dimethyl-,
bis[hexafluorophosphate(1-)] (9CI) (CA INDEX NAME)

CM 1

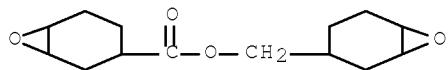
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CMF C16 H20 S3

CM 2

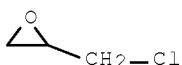
CRN 16919-18-9
CMF F6 P
CCI CCS

IT 77272-87-8P 143685-65-8P
RL: IMF (Industrial manufacture); PREP (Preparation)
(energy radiation curing process for resins containing radiation shielding)
RN 77272-87-8 CAPLUS
CN 7-Oxabicyclo[4.1.0]heptane-3-carboxylic acid,
7-oxabicyclo[4.1.0]hept-3-ylmethyl ester, polymer with
2-(chloromethyl)oxirane and 4,4'-(1-methylethylidene)bis[phenol] (CA
INDEX NAME)

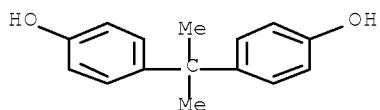
CM 1

CRN 2386-87-0
CMF C14 H20 O4

CM 2

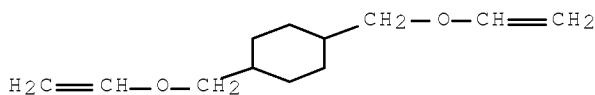
CRN 106-89-8
CMF C3 H5 Cl O

CM 3

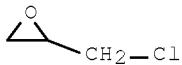
CRN 80-05-7
CMF C15 H16 O2

RN 143685-65-8 CAPLUS
 CN Phenol, 4,4'-(1-methylethylidene)bis-, polymer with
 1,4-bis[(ethenylloxy)methyl]cyclohexane and (chloromethyl)oxirane (9CI)
 (CA INDEX NAME)

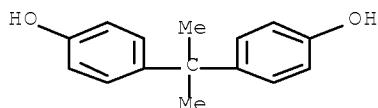
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CM 2

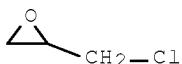
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CMF C15 H16 O2

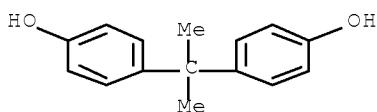
IT 25068-38-6, Epikote 828 29407-84-9, Epikote 815
 RL: PEP (Physical, engineering or chemical process); PROC (Process)
 (energy radiation curing process for resins containing radiation shielding)
 RN 25068-38-6 CAPLUS
 CN Phenol, 4,4'-(1-methylethylidene)bis-, polymer with
 2-(chloromethyl)oxirane (CA INDEX NAME)

CM 1

CRN 106-89-8
CMF C3 H5 Cl O

CM 2

CRN 80-05-7
CMF C15 H16 O2



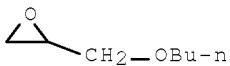
RN 29407-84-9 CAPLUS

CN Phenol, 4, 4'-(1-methylethylidene)bis-, polymer with
2-(butoxymethyl)oxirane and 2-(chloromethyl)oxirane (CA INDEX NAME)

CM 1

CRN 2426-08-6

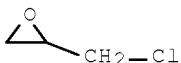
CMF C7 H14 O2



CM 2

CRN 106-89-8

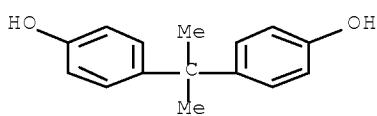
CMF C3 H5 Cl O



CM 3

CRN 80-05-7

CMF C15 H16 O2



REFERENCE COUNT:

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THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMATL35 ANSWER 15 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1997:684459 CAPLUS Full-text

DOCUMENT NUMBER: 127:332868
 ORIGINAL REFERENCE NO.: 127:65361a, 65364a
 TITLE: Light polymerizable composition for putty and coatings
 INVENTOR(S): Ostlie, Brian W.
 PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Co., USA
 SOURCE: PCT Int. Appl., 39 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

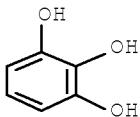
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WO 9738054	A1	19971016	WO 1997-US5706	19970331
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RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2248616	A1	19971016	CA 1997-2248616	19970331
EP 883653	A1	19981216	EP 1997-920174	19970331
R: DE, ES, FR, GB, IT				
CN 1215421	A	19990428	CN 1997-193640	19970331
BR 9708589	A	19990803	BR 1997-8589	19970331
JP 20000508685	T	20000711	JP 1997-536395	19970331
US 5876805	A	19990302	US 1997-951867	19971016
KR 2000005235	A	20000125	KR 1998-7922	19981002
KR 2000005235	A	20000125	KR 1998-707922	19981002
PRIORITY APPLN. INFO.:			US 1996-628420	A 19960405
			WO 1997-US5706	W 19970331

AB Visible light polymerizable compns. comprise ≥ 1 monomer or oligomer having a plurality of free-radically polymerizable ethylenically unsatd. groups, ≥ 1 compound having a plurality of thiol groups, ≥ 1 acyl phosphine oxide photoinitiator, and optional adjuvants, such as stabilizers, pigments, fillers, and polymerization inhibitors. The polymerized compns. are useful, as protective coatings, or chip-resistant coatings or as repair putties on exterior coated substrates such as plastics, wood and metal, especially for the automotive and marine industries. Component A of 1,4-cyclohexanedimethanol divinyl ether, pentaerythritol triacrylate, fumed silica, TiO₂, Irgacure 1700, pyrogallol inhibitor was mixed with component B of pentaerythritol tetramercaptopropionate and sprayed onto a clean steel panel and exposed to fluorescent light prior to finish coating. The coatings had good chip-resistant properties.

IT 87-66-1, Pyrogallol
 RL: CAT (Catalyst use); USES (Uses)
 (inhibitor; visible light curable composition for films, putty and protective coatings over steel)

RN 87-66-1 CAPLUS

CN 1,2,3-Benzenetriol (CA INDEX NAME)

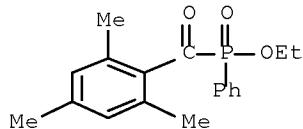


IT 84434-11-7, Lr 8893x 174285-64-4, Irgacure 1700
 RL: CAT (Catalyst use); USES (Uses)

(photoinitiator; visible light curable composition for films, putty and protective coatings over steel)

RN 84434-11-7 CAPLUS

CN Phosphinic acid, P-phenyl-P-(2,4,6-trimethylbenzoyl)-, ethyl ester (CA INDEX NAME)



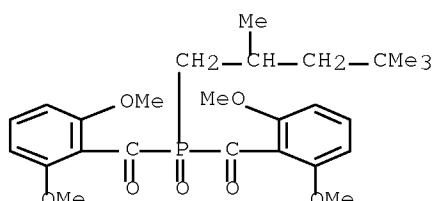
RN 174285-64-4 CAPLUS

CN 1-Propanone, 2-hydroxy-2-methyl-1-phenyl-, mixt. with bis(2,6-dimethoxybenzoyl)(2,4,4-trimethylpentyl)phosphine oxide (CA INDEX NAME)

CM 1

CRN 145052-34-2

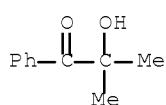
CMF C26 H35 O7 P



CM 2

CRN 7473-98-5

CMF C10 H12 O2



IT 197896-82-5P 197896-83-6P 197896-84-7P

197896-87-0P 197896-89-2P 197896-90-5P

197896-92-7P 197896-93-8P 197896-94-9P

197896-95-0P 197896-96-1P 197896-97-2P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(visible light curable composition for films, putty and protective coatings over steel)

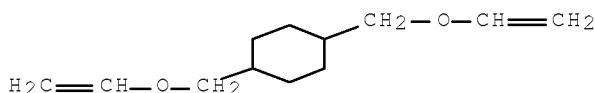
RN 197896-82-5 CAPLUS

CN 2-Propenoic acid, 1,1'-[2-ethyl-2-[(1-oxo-2-propen-1-yl)oxy]methyl]-1,3-propanediyl ester, polymer with 1,4-bis[(ethenyoxy)methyl]cyclohexane and 1,1'-[2,2-bis[(3-mercaptopropanoate)methyl]-1,3-propanediyl bis(3-mercaptopropanoate) (CA INDEX NAME)

CM 1

CRN 17351-75-6

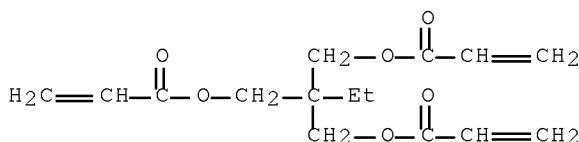
CMF C12 H20 O2



CM 2

CRN 15625-89-5

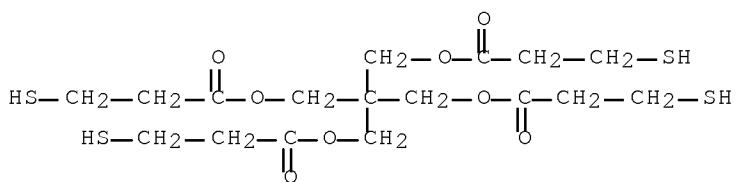
CMF C15 H20 O6



CM 3

CRN 7575-23-7

CMF C17 H28 O8 S4



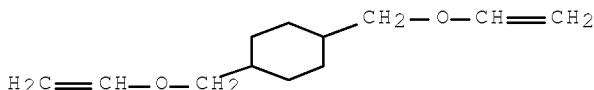
RN 197896-83-6 CAPLUS

CN 2-Propenoic acid, 2-ethyl-2-[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 1,4-bis[(ethenyoxy)methyl]cyclohexane, 2,2-bis[(3-mercaptopropanoate)methyl]-1,3-propanediyl bis(3-mercaptopropanoate) and 2,2'-(1,2-

ethanediylbis(oxy)]bis[ethanethiol] (9CI) (CA INDEX NAME)

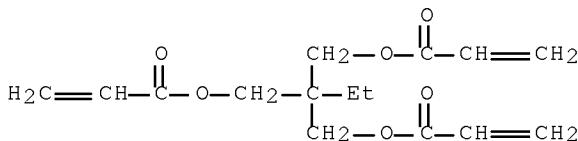
CM 1

CRN 17351-75-6
CMF C12 H20 O2



CM 2

CRN 15625-89-5
CMF C15 H20 06



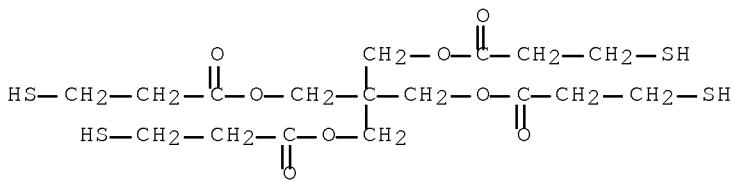
CM 3

CRN 14970-87-7
CMF C6 H14 O2 S2

$$\text{HS}-\text{CH}_2-\text{CH}_2-\text{O}-\text{CH}_2-\text{CH}_2-\text{O}-\text{CH}_2-\text{CH}_2-\text{SH}$$

CM 4

CRN 7575-23-7
CMF C17 H28 08 S4



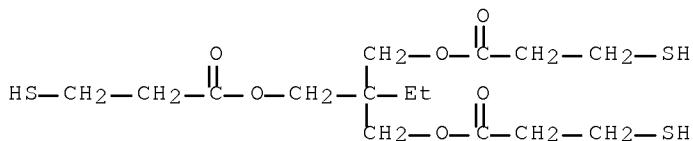
RN 197896-84-7 CAPLUS

CN 2-Propenoic acid, 2-ethyl-2-[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 1,4-bis[(ethenyl)oxy]methyl)cyclohexane, 2,2'-(1,2-ethanediylbis(oxy))bis[ethanethiol] and 2-ethyl-2-[(3-mercaptopro-1-oxopropoxy)methyl]-1,3-propanediyl bis(3-mercaptopropanoate) (9CI) (CA INDEX NAME)

CM 1

CRN 33007-83-9

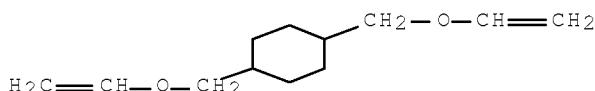
CMF C15 H26 O6 S3



CM 2

CRN 17351-75-6

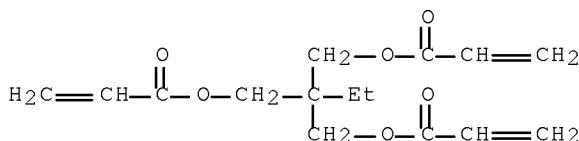
CMF C12 H20 O2



CM 3

CRN 15625-89-5

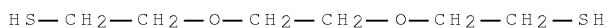
CMF C15 H20 O6



CM 4

CRN 14970-87-7

CMF C6 H14 O2 S2



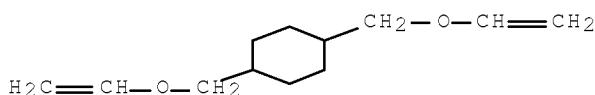
RN 197896-87-0 CAPLUS

CN 2-Propenoic acid, 2-(hydroxymethyl)-2-[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 1,4-bis[(ethenyl)oxy]methyl]cyclohexane and 2,2-bis[(3-mercaptop-1-oxopropoxy)methyl]-1,3-propanediyl bis(3-mercaptopropanoate) (9CI) (CA INDEX NAME)

CM 1

CRN 17351-75-6

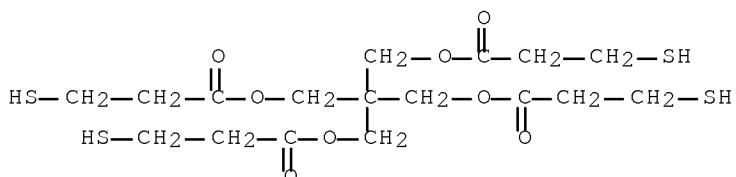
CMF C12 H20 O2



CM 2

CRN 7575-23-7

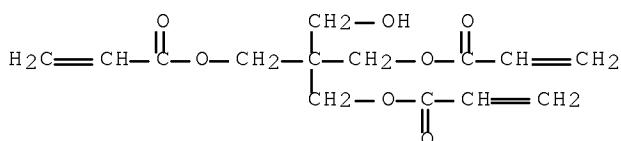
CMF C17 H28 O8 S4



CM 3

CRN 3524-68-3

CMF C14 H18 O7

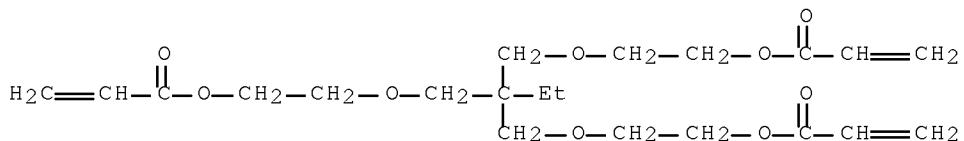


RN 197896-89-2 CAPLUS

CN 2-Propenoic acid, [2-ethyl-2-[(2-[(1-oxo-2-propenyl)oxy]ethoxy)methyl]-1,3-propanediyl]bis(oxy-2,1-ethanediyl) ester, polymer with 1,4-bis[(ethenyl)oxy]methyl]cyclohexane, 2,2-bis[(3-mercaptopropanoate), 2-ethyl-2-[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl bis(3-mercaptopropanoate), 2-ethyl-2-[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate and 1,1'-(oxybis(2,1-ethanediyl)oxy)bis[ethene] (9CI) (CA INDEX NAME)

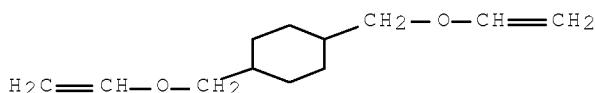
CM 1

CRN 75577-70-7
CMF C21 H32 O9



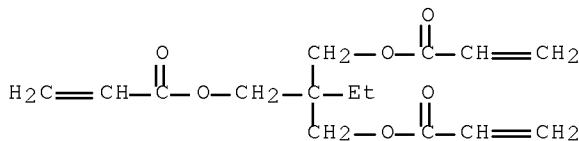
CM 2

CRN 17351-75-6
CMF C12 H20 O2



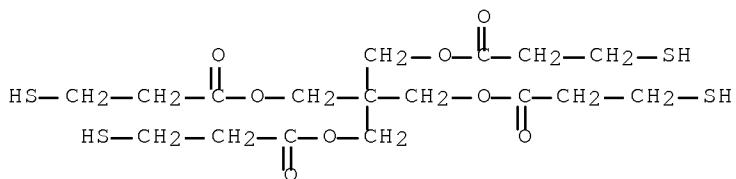
CM 3

CRN 15625-89-5
CMF C15 H20 O6



CM 4

CRN 7575-23-7
CMF C17 H28 O8 S4



CM 5

CRN 764-99-8

CMF C8 H14 O3

$$\text{H}_2\text{C}=\text{CH}-\text{O}-\text{CH}_2-\text{CH}_2-\text{O}-\text{CH}_2-\text{CH}_2-\text{O}-\text{CH}=\text{CH}_2$$

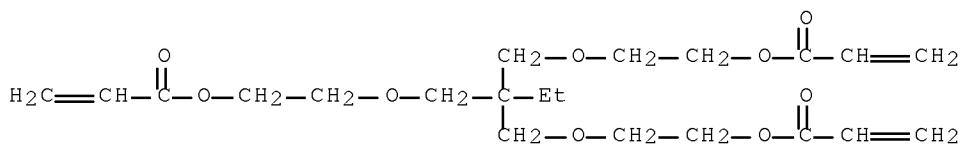
RN 197896-90-5 CAPLUS

CN 2-Propenoic acid, [2-ethyl-2-[(2-[(1-oxo-2-propenyl)oxy]ethoxy)methyl]-1,3-propanediyl]bis(oxy-2,1-ethanediyl) ester, polymer with 1,4-bis[(ethenyl)oxy]methyl]cyclohexane, 2,2-bis[(3-mercaptopro-1-oxopropoxy)methyl]-1,3-propanediyl bis(3-mercaptopropanoate) and 2-ethyl-2-[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 75577-70-7

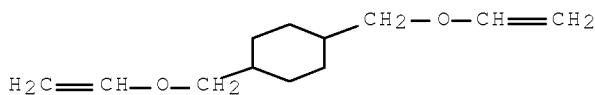
CMF C21 H32 09



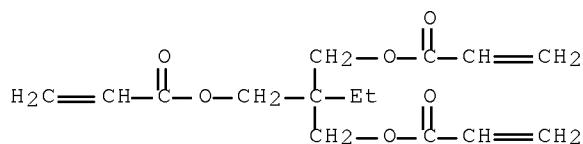
CM 2

CRN 17351-75-6

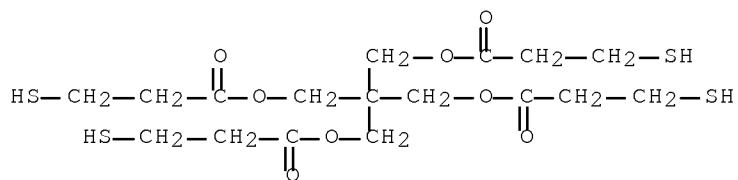
CMF C12 H20 O2



CM 3

CRN 15625-89-5
CMF C15 H20 O6

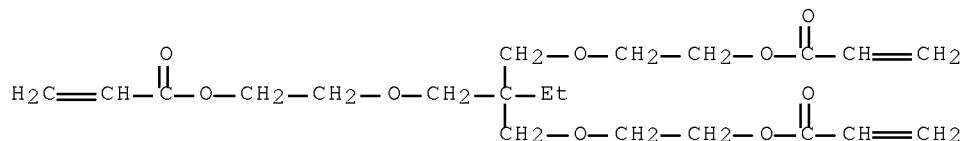
CM 4

CRN 7575-23-7
CMF C17 H28 O8 S4

RN 197896-92-7 CAPLUS

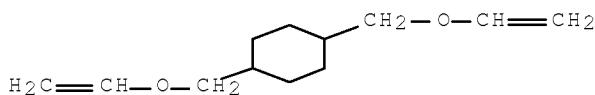
CN 2-Propenoic acid, [2-ethyl-2-[[2-[(1-oxo-2-propenyl)oxy]ethoxy]methyl]-1,3-propanediyl]bis(oxy-2,1-ethanediyl) ester, polymer with 1,4-bis[(ethenyl)oxy]methyl]cyclohexane and 2,2-bis[(3-mercaptop-1-oxopropoxy)methyl]-1,3-propanediyl bis(3-mercaptopropanoate) (9CI) (CA INDEX NAME)

CM 1

CRN 75577-70-7
CMF C21 H32 O9

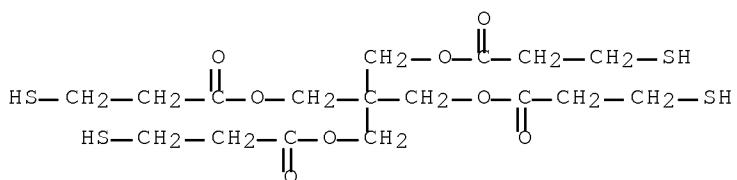
CM 2

CRN 17351-75-6
 CMF C12 H20 O2



CM 3

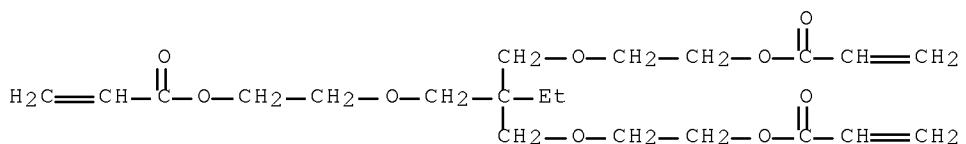
CRN 7575-23-7
 CMF C17 H28 O8 S4



RN 197896-93-8 CAPLUS
 CN 2-Propenoic acid, [2-ethyl-2-[(2-[(1-oxo-2-propenyl)oxy]ethoxy)methyl]-1,3-propanediyl]bis(oxy-2,1-ethanediyl) ester, polymer with 1,4-bis[(ethenyl)oxy]methyl]cyclohexane, 2,2-bis[(3-mercaptopropanoate)methyl]-1,3-propanediyl bis(3-mercaptopropanoate) and 2-(hydroxymethyl)-2-[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate (9CI) (CA INDEX NAME)

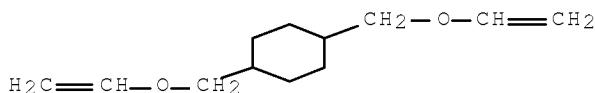
CM 1

CRN 75577-70-7
 CMF C21 H32 O9

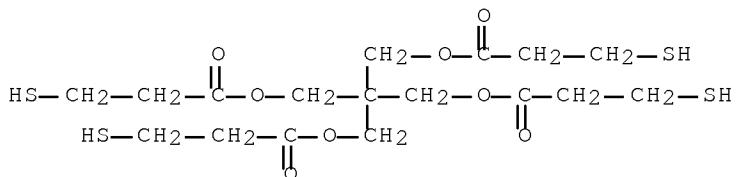


CM 2

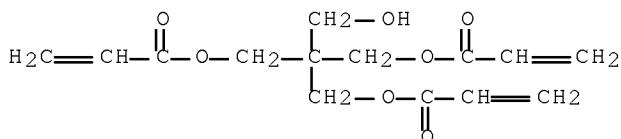
CRN 17351-75-6
 CMF C12 H20 O2



CM 3

CRN 7575-23-7
CMF C17 H28 O8 S4

CM 4

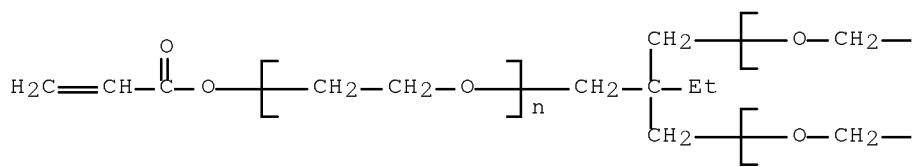
CRN 3524-68-3
CMF C14 H18 O7

RN 197896-94-9 CAPLUS
 CN 2-Propenoic acid, 2-(hydroxymethyl)-2-[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 1,4-bis[(ethenylloxy)methyl]cyclohexane, 2,2-bis[(3-mercaptopropanoate)methyl]-1,3-propanediyl bis(3-mercaptopropanoate) and α -hydro- ω -[(1-oxo-2-propenyl)oxy] [poly(oxy-1,2-ethanediyl)] ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (9CI) (CA INDEX NAME)

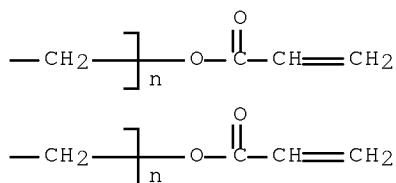
CM 1

CRN 28961-43-5
CMF (C₂ H₄ O)_n (C₂ H₄ O)_n (C₂ H₄ O)_n C₁₅ H₂₀ O₆
CCI PMS

PAGE 1-A



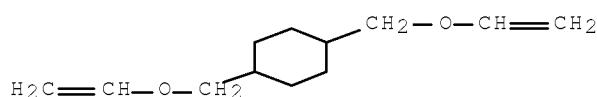
PAGE 1-B



CM 2

CRN 17351-75-6

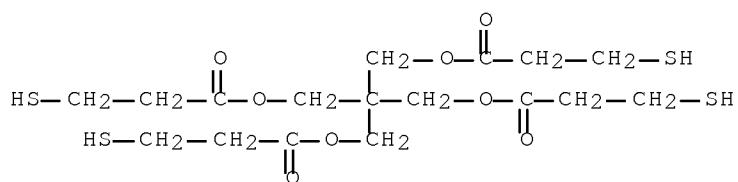
CMF C12 H20 O2



CM 3

CRN 7575-23-7

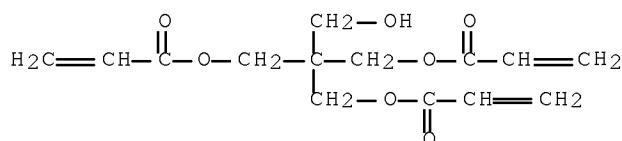
CMF C17 H28 O8 S4



CM 4

CRN 3524-68-3

CMF C14 H18 07



RN 197896-95-0 CAPLUS

CN 2-Propenoic acid, 2-ethyl-2-[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 1,4-bis[(ethenyl)oxy]methyl)cyclohexane, 2,2-bis[(3-mercaptopropanoate)methyl]-1,3-propanediyl bis(3-mercaptopropanoate) and α -hydro- ω -(1-oxo-2-propenyl)oxy] [poly(oxy-1,2-ethanediyl)] ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (9CI) (CA INDEX NAME)

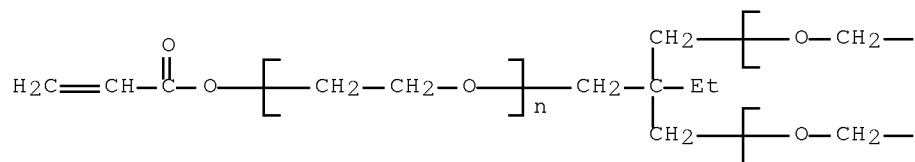
CM 1

CRN 28961-43-5

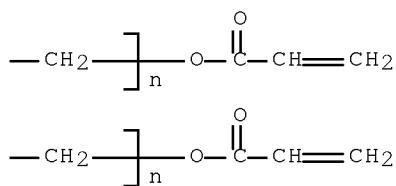
CMF (C₂ H₄ O)_n (C₂ H₄ O)_n (C₂ H₄ O)_n C₁₅ H₂₀ O₆

CCI PMS

PAGE 1-A

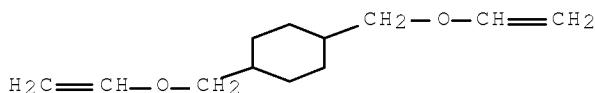


PAGE 1-B

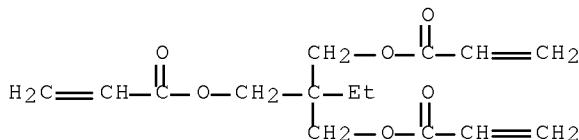


CM 2

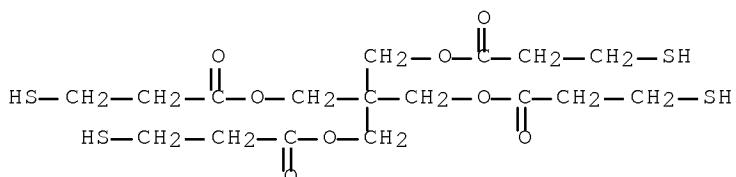
CRN 17351-75-6
CMF C12 H20 O2



CM 3

CRN 15625-89-5
CMF C15 H20 O6

CM 4

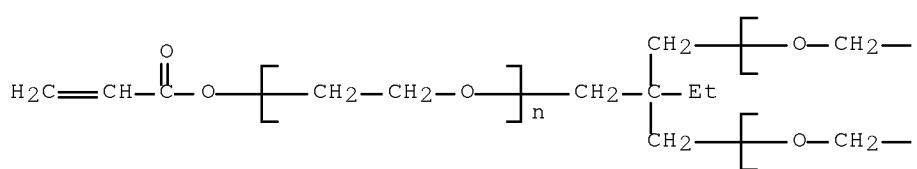
CRN 7575-23-7
CMF C17 H28 O8 S4

RN 197896-96-1 CAPLUS
 CN 2-Propenoic acid, 2-(hydroxymethyl)-2-[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 1,4-bis[(ethenylloxy)methyl]cyclohexane, 2,2-bis[(3-mercaptop-1-oxopropoxy)methyl]-1,3-propanediyl bis(3-mercaptopropanoate), 2-carboxyethyl 2-propenoate and α -hydro- ω -[(1-oxo-2-propenyl)oxy] [poly(oxy-1,2-ethanediyl)] ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (9CI) (CA INDEX NAME)

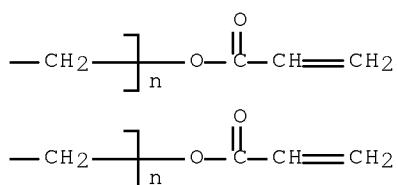
CM 1

CRN 28961-43-5
CMF (C₂ H₄ O)_n (C₂ H₄ O)_n (C₂ H₄ O)_n C15 H₂₀ O₆
CCI PMS

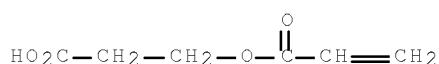
PAGE 1-A



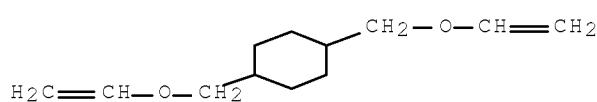
PAGE 1-B



CM 2

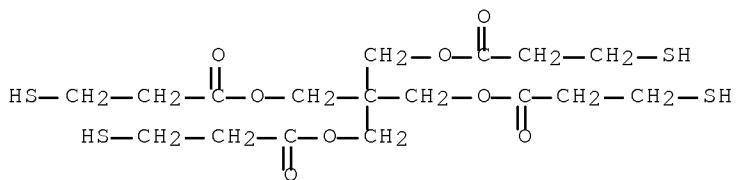
CRN 24615-84-7
CMF C6 H8 O4

CM 3

CRN 17351-75-6
CMF C12 H20 O2

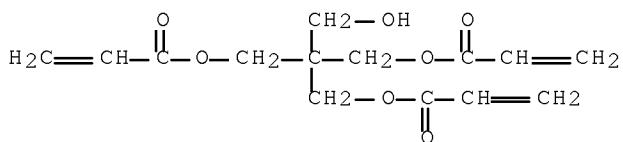
CM 4

CRN 7575-23-7
CMF C17 H28 O8 S4



CM 5

CRN 3524-68-3
CMF C14 H18 07



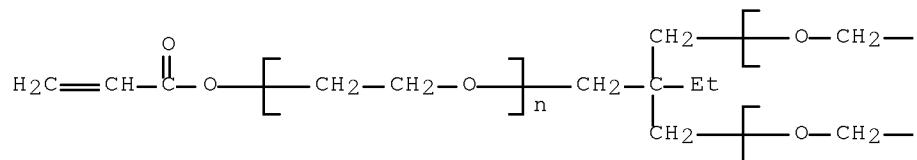
RN 197896-97-2 CAPLUS

CN 2-Propenoic acid, 2-ethyl-2-[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 1,4-bis[(ethenyl)oxy]methyl)cyclohexane, 2,2-bis[(3-mercaptopropanoate)methyl]-1,3-propanediyl bis(3-mercaptopropanoate), 2-carboxyethyl 2-propenoate and α -hydro- ω -[(1-oxo-2-propenyl)oxy] [poly(oxy-1,2-ethanediyl)] ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (9CI) (CA INDEX NAME)

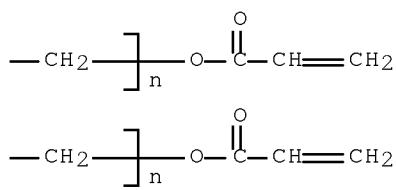
CM 1

CRN 28961-43-5
CMF (C2 H4 O)n (C2 H4 O)n (C2 H4 O)n C15 H20 O6
CCI PMS

PAGE 1-A



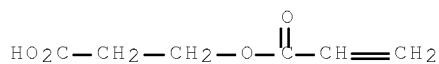
PAGE 1-B



CM 2

CRN 24615-84-7

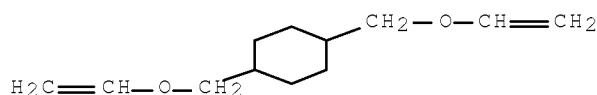
CMF C6 H8 O4



CM 3

CRN 17351-75-6

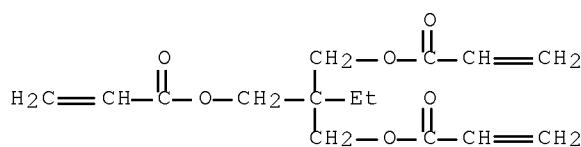
CMF C12 H20 O2



CM 4

CRN 15625-89-5

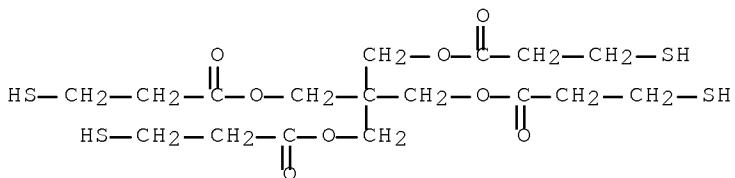
CMF C15 H20 O6



CM 5

CRN 7575-23-7

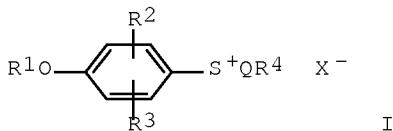
CMF C17 H28 O8 S4



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L35 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1992:236826 CAPLUS Full-text
DOCUMENT NUMBER: 116:236826
ORIGINAL REFERENCE NO.: 116:40137a, 40140a
TITLE: UV-curable resin compositions and cured products
INVENTOR(S): Endo, Takeshi; Yokoshima, Minoru; Hamatsu, Tomio
PATENT ASSIGNEE(S): Nippon Kayaku Co., Ltd., Japan; Sanshin Chemical
Industry Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04011609	A	19920116	JP 1990-113995	19900427
PRIORITY APPLN. INFO.:			JP 1990-113995	19900427
OTHER SOURCE(S):	MARPAT	116:236826		
GI				



AB Rapid-curing title compns. giving products, e.g. coatings, adhesives, with good adhesion and solvent resistance, comprise (meth)acrylates and/or epoxy resins, compds. containing ≥ 2 vinyl ether groups, sulfonium salts I [R1 = H, alkyl, COY; R2-3 = H, halo, alkyl; Q, R4 = (un)substituted alkyl; Y = (un)substituted alkyl, alkoxy, Ph, OPh; X = SbF₆, PF₆, AsF₆, BF₄], and optionally photoinitiators. Thus, treating PTMG 700, neopentyl glycol 67.6, and IPDI 444.6 parts at 80° for 10 h and subsequent reaction with 244 parts 2-hydroxyethyl acrylate in presence of methoquinone gave 1456 parts urethane acrylate, 40 parts of which was blended with triethylene glycol divinyl ether (II) 60, p-nitrobenzyl-(4-hydroxyphenyl)methylsulfonium hexafluoroantimonate (III) 0.15, and Irgacure 184 2.0 parts to give title composition A printed

paper was coated with the composition and irradiated by UV to form a hard coating by 69 mJ/cm² irradiation, vs. 138 for a control containing tripropylene glycol diacrylate instead of II and III.

IT 25068-38-6, Epikote 828

RL: USES (Uses)

(UV-curable compns. containing vinyl ethers and, fast-curing)

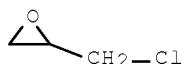
RN 25068-38-6 CAPLUS

CN Phenol, 4, 4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane (CA INDEX NAME)

CM 1

CRN 106-89-8

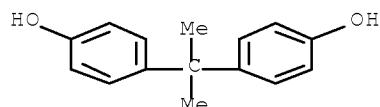
CMF C3 H5 Cl O



CM 2

CRN 80-05-7

CMF C15 H16 O2



IT 125662-43-3P 133152-70-2P 133152-90-6P
141545-63-3P

RL: PREP (Preparation)

(preparation of, UV-curable acrylate or epoxy resin compns. containing, fast-curing)

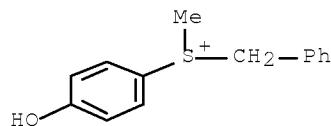
RN 125662-43-3 CAPLUS

CN Sulfonium, (4-hydroxyphenyl)methyl(phenylmethyl)-, hexafluorophosphate(1-) (1:1) (CA INDEX NAME)

CM 1

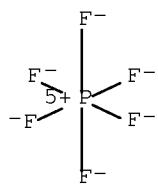
CRN 125662-41-1

CMF C14 H15 O S



CM 2

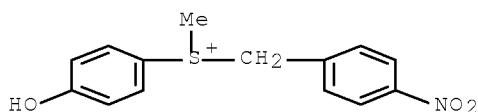
CRN 16919-18-9
 CMF F6 P
 CCI CCS



RN 133152-70-2 CAPLUS
 CN Sulfonium, (4-hydroxyphenyl)methyl[(4-nitrophenyl)methyl]-, (OC-6-11)-hexafluoroantimonate(1-) (9CI) (CA INDEX NAME)

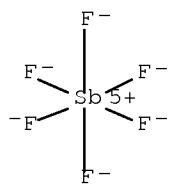
CM 1

CRN 133152-69-9
 CMF C14 H14 N O3 S



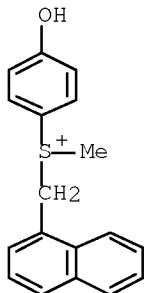
CM 2

CRN 17111-95-4
 CMF F6 Sb
 CCI CCS

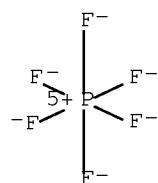


RN 133152-90-6 CAPLUS
 CN Sulfonium, (4-hydroxyphenyl)methyl(1-naphthalenylmethyl)-, hexafluorophosphate(1-) (1:1) (CA INDEX NAME)

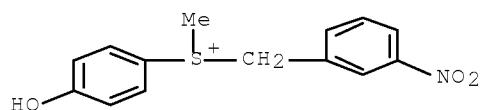
CM 1

CRN 133152-66-6
CMF C18 H17 O S

CM 2

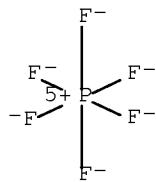
CRN 16919-18-9
CMF F6 P
CCI CCSRN 141545-63-3 CAPLUS
CN Sulfonium, (4-hydroxyphenyl)methyl[(3-nitrophenyl)methyl]-, hexafluorophosphate(1-) (1:1) (CA INDEX NAME)

CM 1

CRN 133177-52-3
CMF C14 H14 N O3 S

CM 2

CRN 16919-18-9
 CMF F6 P
 CCI CCS

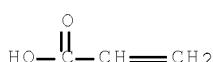


IT 141503-95-9P 141545-43-9P
 RL: PREP (Preparation)
 (preparation of, coatings, UV-cured, with good solvent resistance and
 adhesion)
 RN 141503-95-9 CAPLUS
 CN Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane,
 2-propenoate, polymer with 3,6,9,12-tetraoxatetradeca-1,13-diene (9CI)
 (CA INDEX NAME)
 CM 1
 CRN 765-12-8
 CMF C10 H18 O4



CM 2
 CRN 55818-57-0
 CMF (C₁₅ H₁₆ O₂ . C₃ H₅ Cl O)x . x C₃ H₄ O₂

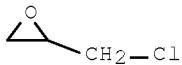
CM 3
 CRN 79-10-7
 CMF C₃ H₄ O₂



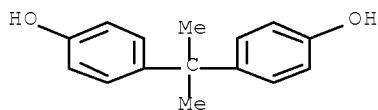
CM 4
 CRN 25068-38-6
 CMF (C₁₅ H₁₆ O₂ . C₃ H₅ Cl O)x

CCI PMS

CM 5

CRN 106-89-8
CMF C3 H5 Cl O

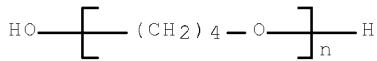
CM 6

CRN 80-05-7
CMF C15 H16 O2

RN 141545-43-9 CAPLUS

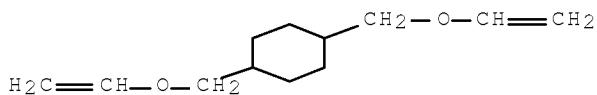
CN 2-Propenoic acid, 2-hydroxyethyl ester, polymer with
1,4-bis[(ethenylloxy)methyl]cyclohexane, 2,2-dimethyl-1,3-propanediol,
 α -hydro- ω -hydroxypoly(oxy-1,4-butanediyl),
5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and
3,6,9,12-tetraoxatetradeca-1,13-diene (9CI) (CA INDEX NAME)

CM 1

CRN 25190-06-1
CMF (C4 H8 O)n H2 O
CCI PMS

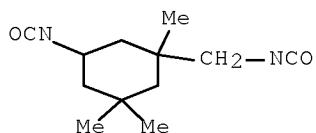
CM 2

CRN 17351-75-6
CMF C12 H20 O2



CM 3

CRN 4098-71-9
 CMF C12 H18 N2 O2



CM 4

CRN 818-61-1
 CMF C5 H8 O3



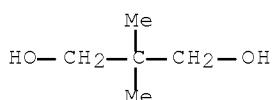
CM 5

CRN 765-12-8
 CMF C10 H18 O4



CM 6

CRN 126-30-7
 CMF C5 H12 O2



IT 141503-97-1P

RL: PREP (Preparation)

preparation of, epoxy resin coatings containing, UV-cured, with good solvent

resistance and adhesion)

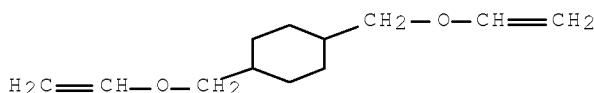
RN 141503-97-1 CAPLUS

CN 3,6,9,12-Tetraoxatetradeca-1,13-diene, polymer with
1,4-bis[(ethenyoxy)methyl]cyclohexane (9CI) (CA INDEX NAME)

CM 1

CRN 17351-75-6

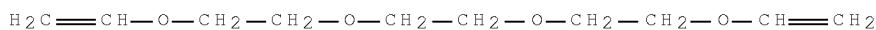
CMF C12 H20 O2



CM 2

CRN 765-12-8

CMF C10 H18 O4



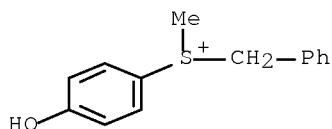
IT 132733-08-5 133152-68-8 133152-71-3

141545-62-2

RL: RCT (Reactant); RACT (Reactant or reagent)
(salt exchange reaction of)

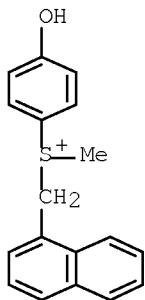
RN 132733-08-5 CAPLUS

CN Sulfonium, (4-hydroxyphenyl)methyl(phenylmethyl)-, chloride (1:1) (CA INDEX NAME)

● Cl⁻

RN 133152-68-8 CAPLUS

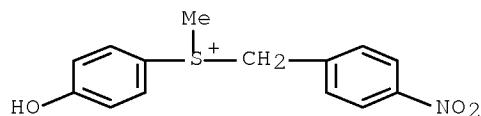
CN Sulfonium, (4-hydroxyphenyl)methyl(1-naphthalenylmethyl)-, chloride (1:1)
(CA INDEX NAME)



● cl⁻

RN 133152-71-3 CAPLUS

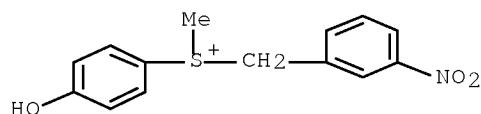
CN Sulfonium, (4-hydroxyphenyl)methyl[(4-nitrophenyl)methyl]-, chloride (1:1)
(CA INDEX NAME)



● cl⁻

RN 141545-62-2 CAPLUS

CN Sulfonium, (4-hydroxyphenyl)methyl[(3-nitrophenyl)methyl]-, chloride (1:1)
(CA INDEX NAME)



● cl⁻

L35 ANSWER 17 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1991:682175 CAPLUS Full-text
 DOCUMENT NUMBER: 115:282175
 ORIGINAL REFERENCE NO.: 115:47933a, 47936a
 TITLE: Alkenyl ethers and radiation-curable compositions
 INVENTOR(S): Vara, Fulvio J.; Dougherty, James A.; Plotkin, Jeffrey S.; Narayanan, Kolazi S.; Taylor, Paul D.
 PATENT ASSIGNEE(S): ISP Investments, Inc., USA
 SOURCE: PCT Int. Appl., 24 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9111467	A1	19910808	WO 1990-US6758	19901123
W: AU				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
US 5039716	A	19910813	US 1990-470489	19900126
US 5045572	A	19910903	US 1990-470487	19900126
AU 9168936	A	19910821	AU 1991-68936	19901123
CA 2031114	A1	19910727	CA 1990-2031114	19901129
US 5055357	A	19911008	US 1991-670649	19910318
US 5094917	A	19920310	US 1991-672249	19910320
PRIORITY APPLN. INFO.:			US 1990-470487	A 19900126
			US 1990-470489	A 19900126
			WO 1990-US6758	A 19901123

OTHER SOURCE(S): MARPAT 115:282175

AB The title compds. comprise (X)4-nSi(OR1OCH:CHR2)n (I) (X = halogen, OR, H, optionally mixed; R = lower alkyl; ; R1 = C1-8 alkylene, alkenylene, alkynylene, optionally alkoxylated; R2 = H, lower alkyl; n = 1-4) or A[(CH2O)mZrCH:CHR]n (II) [A = carbon atom, OCH:CHR or (C1-10 alkyl)4-n; R = C1-6 alkyl; Z = C2-8 alkylenoxy; r = 0-6; m = 0-1; n = 1-4; provided that m = 0 and n = 1 when A = OCH:CHR, n = 2 or 3 when A = (C1-10 alkyl)4-n and n = 4 when A = carbon]. A radiation-curable composition comprises 0.1-5 weight% photoinitiator (containing ≥25% cationic photoinitiator); 30-99 weight% vinyl ether, epoxy ether, epoxy acrylate and/or vinyloxy alkyl urethane; and 1-60 weight% I; similar compns. contained II. The compns. are fast curing (<1 s) and useful for coatings. Thus, hydroxybutyl vinyl ether, (EtO)4Si, and KOH were reacted at 55-60° evolving EtOH, and was then the mixt, was heated to 110°, evolving more EtOH. Distilling the product gave a main fraction at 100-200°/3 mm containing an 85:15 (%) tris(vinyloxybutyl) Et orthosilicate/bis(vinyloxybutyl) and o-silicate mixture (III). III 50, Epon 828 50, FC-430 fluorochem. surfactant 1, FX-512 cationic photoinitiator 4 parts were heated at 50° for homogeneity. Coating on a Al substrate at 1.2 mil and exposing for less than 1 s to 400 mJ/cm2 UV radiation gave a tack-free film which was post-cured at 177° to give tensile hardness F, double MEK rubs >100, and reverse impact <10.

IT 57835-99-1, Triphenylsulfonium hexafluorophosphate

RL: USES (Uses)

(coatings containing, alkenyl ether-based, UV-curable, abrasion-resistant)

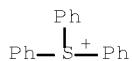
RN 57835-99-1 CAPLUS

CN Sulfonium, triphenyl-, hexafluorophosphate(1-) (1:1) (CA INDEX NAME)

CM 1

CRN 18393-55-0

CMF C18 H15 S

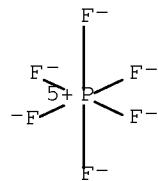


CM 2

CRN 16919-18-9

CMF F6 P

CCI CCS



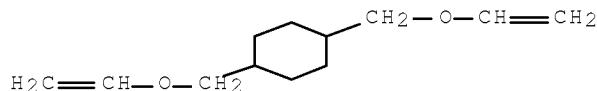
IT 17351-75-6

RL: USES (Uses)

(coatings containing, photocurable, on polyester)

RN 17351-75-6 CAPLUS

CN Cyclohexane, 1,4-bis[(ethenyloxy)methyl]- (CA INDEX NAME)



IT 137340-17-1

RL: TEM (Technical or engineered material use); USES (Uses)
(coatings, photocurable, chemical-resistant)

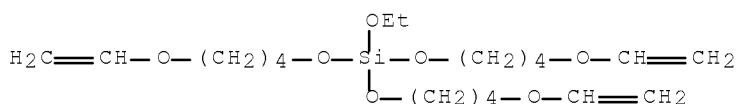
RN 137340-17-1 CAPLUS

CN Silicic acid (H4SiO4), bis[4-(ethenyloxy)butyl] monoethyl ester, polymer with (chloromethyl)oxirane, 4,4'-(1-methylethyldene)bis[phenol] and silicic acid (H4SiO4) tris[4-(ethenyloxy)butyl] ethyl ester (9CI) (CA INDEX NAME)

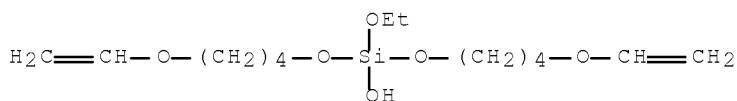
CM 1

CRN 137340-16-0

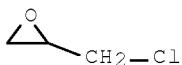
CMF C20 H38 O7 Si



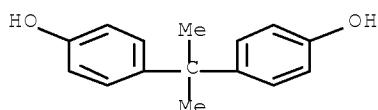
CM 2

CRN 137340-15-9
CMF C14 H28 O6 Si

CM 3

CRN 106-89-8
CMF C3 H5 Cl O

CM 4

CRN 80-05-7
CMF C15 H16 O2REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMATL35 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1991:610383 CAPLUS Full-text
DOCUMENT NUMBER: 115:210383
ORIGINAL REFERENCE NO.: 115:35885a, 35888a

TITLE: Crosslinkable vinyl ether polyacetal oligomers
 INVENTOR(S): Dougherty, James A.; Plotkin, Jeffrey S.; Vara, Fulvio
 J.; Narayanan, Kolazi S.
 PATENT ASSIGNEE(S): GAF Chemicals Corp., USA
 SOURCE: U.S., 5 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5036112	A	19910730	US 1990-470488	19900126
WO 9111466	A1	19910808	WO 1990-US6713	19901119
W: AU				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
AU 9169624	A	19910821	AU 1991-69624	19901119
CA 2030673	A1	19910727	CA 1990-2030673	19901122
PRIORITY APPLN. INFO.:			US 1990-470488	A 19900126
			WO 1990-US6713	A 19901119

AB The title compns., useful in coatings and films rapidly cured by radiation, comprise (oligomeric) vinyl ethers, epoxides, acrylates, or vinyloxyalkyl urethanes, photoinitiators (containing $\geq 25\%$ cationic photoinitiators), and divinyl ether polyacetal oligomers. A divinyl ether acetal oligomer (I) was prepared from 1.2 mol butanediol divinyl ether and 1.0 mol bisphenol A. A mixture of I 50, triethylene glycol divinyl ether 50, surfactant 1.0, and triphenylsulfonium hexafluorophosphate initiator solution 4.0 g was applied to Al and cured with 400 mJ/cm² UV and post-cured 10 min at 177°, giving a coating with pencil hardness 2 H, adhesion 92%, and MEK resistance 13 double rubs for a 1 mil-thick coating.

IT 57835-99-1, Triphenyl sulfonium hexafluorophosphate

RL: USES (Uses)

(cationic photoinitiators, for divinyl ether polyacetal oligomer-vinyl compound coatings)

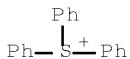
RN 57835-99-1 CAPLUS

CN Sulfonium, triphenyl-, hexafluorophosphate(1-) (1:1) (CA INDEX NAME)

CM 1

CRN 18393-55-0

CMF C18 H15 S

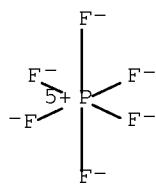


CM 2

CRN 16919-18-9

CMF F6 P

CCI CCS



IT 137024-60-3 137024-61-4 137024-62-5
 137024-63-6 137024-64-7

RL: TEM (Technical or engineered material use); USES (Uses)
 (coatings, cationic photoinitiators for curing of)

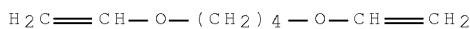
RN 137024-60-3 CAPLUS

CN Phenol, 4,4'-(1-methylethylidene)bis-, polymer with
 1,4-bis(ethenylloxy)butane and 3,6,9,12-tetraoxatetradeca-1,13-diene (9CI)
 (CA INDEX NAME)

CM 1

CRN 3891-33-6

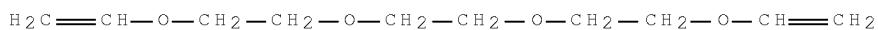
CMF C8 H14 O2



CM 2

CRN 765-12-8

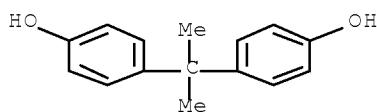
CMF C10 H18 O4



CM 3

CRN 80-05-7

CMF C15 H16 O2



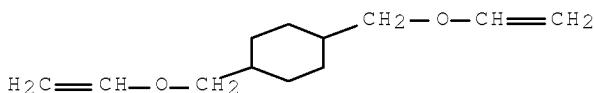
RN 137024-61-4 CAPLUS

CN Phenol, 4,4'-(1-methylethylidene)bis-, polymer with

1,4-bis[(ethenyloxy)methyl]cyclohexane and
3,6,9,12-tetraoxatetradeca-1,13-diene (9CI) (CA INDEX NAME)

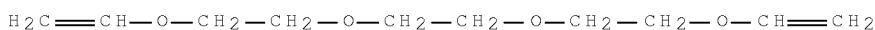
CM 1

CRN 17351-75-6
CMF C12 H20 O2



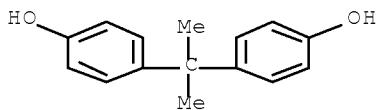
CM 2

CRN 765-12-8
CMF C10 H18 O4



CM 3

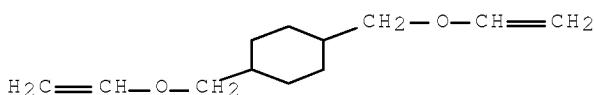
CRN 80-05-7
CMF C15 H16 O2



RN 137024-62-5 CAPLUS
CN Phenol, 4,4'-(1-methylethylidene)bis-, polymer with
1,4-bis[(ethenyloxy)methyl]cyclohexane and
2,2'-(1,4-butanediylbis(oxymethylene)]bis[oxirane] (9CI) (CA INDEX NAME)

CM 1

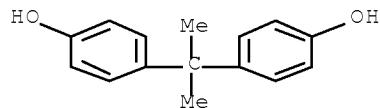
CRN 17351-75-6
CMF C12 H20 O2



CM 2

CRN 2425-79-8
CMF C10 H18 O4

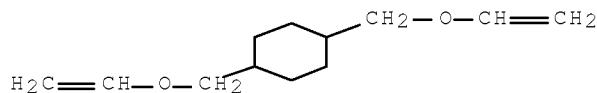
CM 3

CRN 80-05-7
CMF C15 H16 O2

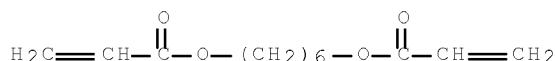
RN 137024-63-6 CAPLUS

CN 2-Propenoic acid, 1,6-hexanediyl ester, polymer with
1,4-bis[(ethenyloxy)methyl]cyclohexane and
4,4'-(1-methylethylidene)bis[phenol] (9CI) (CA INDEX NAME)

CM 1

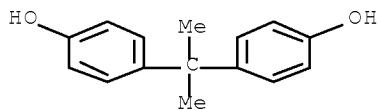
CRN 17351-75-6
CMF C12 H20 O2

CM 2

CRN 13048-33-4
CMF C12 H18 O4

CM 3

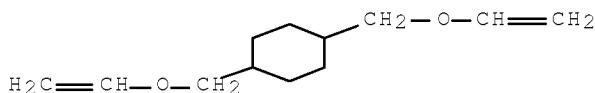
CRN 80-05-7
 CMF C15 H16 O2



RN 137024-64-7 CAPLUS
 CN 2-Propenoic acid, 1,2-ethanediylbis(oxy-2,1-ethanediyl) ester, polymer with 1,4-bis[(ethenylloxy)methyl]cyclohexane and 4,4'-(1-methylethylidene)bis[phenol] (9CI) (CA INDEX NAME)

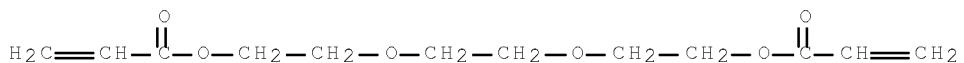
CM 1

CRN 17351-75-6
 CMF C12 H20 O2



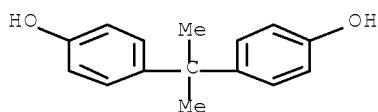
CM 2

CRN 1680-21-3
 CMF C12 H18 O6



CM 3

CRN 80-05-7
 CMF C15 H16 O2



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L35 ANSWER 19 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1968:432031 CAPLUS Full-text
 DOCUMENT NUMBER: 69:32031
 ORIGINAL REFERENCE NO.: 69:5975a,5978a
 TITLE: Photographic metal salt process
 PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co.
 SOURCE: Fr., 13 pp.
 CODEN: FRXXAK
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1495784	-----	19670922	FR 1966-78607	19661003

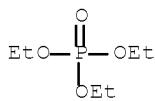
AB Fine-grained metal images of high resolution are obtained by exposure of salts of a strong acid (fluorinated alkanesulfonic acids) with a light-absorbing sensitizer to decompose the salt with liberation of acid, followed by heating to 100-70° for <5 min. The salt may be of Ag, Hg, or Cu, especially CF₃CHFCF₂SO₃Ag; the sensitizer is a photoreducible ketone or dye. A film-forming thermoplastic polymeric binder [poly(vinyl acetate) of mol. weight >10,000] is used at the rate of 100 parts per 4-50 parts of metal salt for coating on a paper, film, or metal support. Thus, a 15% poly(vinyl formal) solution in EtOH-PhMe 40:60 15 g., CF₃CHFCF₂SO₃Ag 0.5 g., 9,10-phenanthrenequinone 0.13 g., and dioxane 4 cc. are coated on polyester film, exposed through a neg. for 5 sec. to a Sylvania Sun Gun lamp at a distance of 31.5 cm., and heated for 1 min. at 150°. The black image can be fixed by washing with water and removal of the unexposed coating with dioxane. Another method of fixation is thermal transfer of the unexposed areas to another support where they can serve to yield a reverse image.

IT 78-40-0 7596-61-4 7598-61-0 17351-75-6

RL: USES (Uses)
 (photothermographic copy sheets containing)

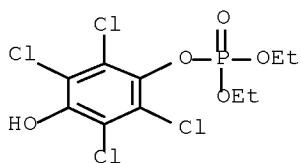
RN 78-40-0 CAPLUS

CN Phosphoric acid, triethyl ester (CA INDEX NAME)



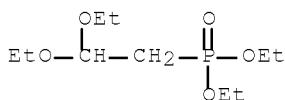
RN 7596-61-4 CAPLUS
 CN Phosphoric acid, diethyl 2,3,5,6-tetrachloro-4-hydroxyphenyl ester (CA

INDEX NAME)



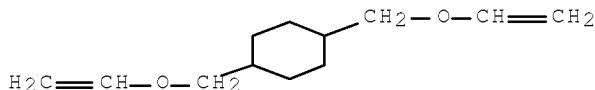
RN 7598-61-0 CAPLUS

CN Phosphonic acid, P-(2,2-diethoxyethyl)-, diethyl ester (CA INDEX NAME)



RN 17351-75-6 CAPLUS

CN Cyclohexane, 1,4-bis[(ethenylloxy)methyl]- (CA INDEX NAME)



=> d his ful

(FILE 'HOME' ENTERED AT 10:46:52 ON 19 JUN 2009)

FILE 'REGISTRY' ENTERED AT 10:47:34 ON 19 JUN 2009

L1 1 SEA SPE=ON ABB=ON PLU=ON PHENOL/CN
 D

L2 STR 108-95-2

L3 50 SEA SSS SAM L2

L4 STR

L5 47 SEA SSS SAM L4

L6 50 SEA SSS SAM L2 AND L4

L7 SCR 1701

L8 50 SEA SSS SAM L7 AND L2 AND L4

L9 50 SEA SSS SAM L7 AND L2 AND L4

L10 710579 SEA SSS FUL L7 AND L2 AND L4

L11 710552 SEA SPE=ON ABB=ON PLU=ON L10/COM

FILE 'CAPLUS' ENTERED AT 10:54:41 ON 19 JUN 2009

E US2005-560815/APPS

L12 1 SEA SPE=ON ABB=ON PLU=ON US2005-560815/AP

SEL RN

FILE 'REGISTRY' ENTERED AT 10:55:08 ON 19 JUN 2009

L13 7 SEA SPE=ON ABB=ON PLU=ON (382596-16-9/BI OR 60676-86-0/BI
 OR 830351-48-9/BI OR 830351-49-0/BI OR 830351-51-4/BI OR
 830351-52-5/BI OR 830351-54-7/BI)
 D SCA
 L14 STR
 L15 0 SEA SSS SAM L14
 L16 STR L14
 L17 0 SEA SSS SAM L16
 L18 STR
 L19 0 SEA SSS SAM L18
 L20 272 SEA SSS FUL L18
 L21 STR
 L22 0 SEA SSS SAM L21
 L23 0 SEA SSS FUL L21
 D SCA L13

FILE 'CAPLUS' ENTERED AT 11:12:10 ON 19 JUN 2009

L24 325 SEA SPE=ON ABB=ON PLU=ON L20
 L25 1 SEA SPE=ON ABB=ON PLU=ON L24 AND L12

FILE 'REGISTRY' ENTERED AT 11:12:31 ON 19 JUN 2009

FILE 'CAPLUS' ENTERED AT 11:12:33 ON 19 JUN 2009
 L26 TRA PLU=ON L24 1- RN : 2814 TERMS

FILE 'REGISTRY' ENTERED AT 11:12:41 ON 19 JUN 2009
 L27 2814 SEA SPE=ON ABB=ON PLU=ON L26
 L28 73 SEA SPE=ON ABB=ON PLU=ON L27 AND P/ELS
 L29 STR
 L30 9 SEA SUB=L27 SSS SAM L29
 L31 196 SEA SUB=L27 SSS FUL L29

FILE 'CAPLUS' ENTERED AT 11:13:45 ON 19 JUN 2009
 L32 21 SEA SPE=ON ABB=ON PLU=ON L20 AND L31 AND L28
 L33 1 SEA SPE=ON ABB=ON PLU=ON L12 AND L32
 D SCA
 L34 2 SEA SPE=ON ABB=ON PLU=ON L32 AND (?FIRE? OR ?FLAME?)
 D SCA
 L35 19 SEA SPE=ON ABB=ON PLU=ON L32 NOT L34

FILE 'CAPLUS' ENTERED AT 11:15:40 ON 19 JUN 2009

D QUE L34
 D L34 IBIB ABS HITIND HITSTR TOT
 D QUE L35
 D L35 IBIB ABS HITSTR TOT

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file
 provided by InfoChem.

STRUCTURE FILE UPDATES: 18 JUN 2009 HIGHEST RN 1159095-43-8

DICTIONARY FILE UPDATES: 18 JUN 2009 HIGHEST RN 1159095-43-8

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<http://www.cas.org/support/stngen/stndoc/properties.html>

FILE CAPLUS

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FILE COVERS 1907 - 19 Jun 2009 VOL 150 ISS 26

FILE LAST UPDATED: 18 Jun 2009 (20090618/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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